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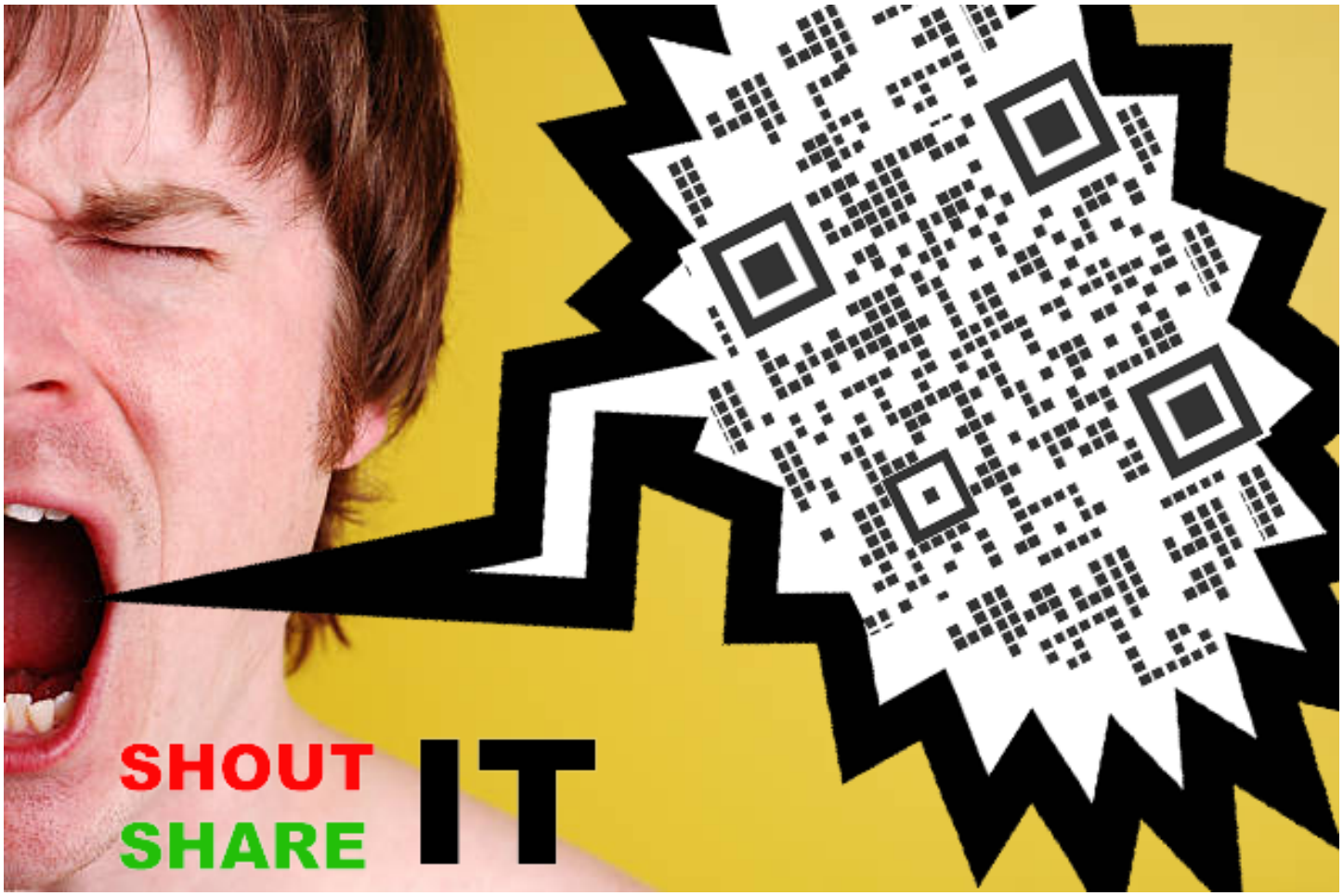
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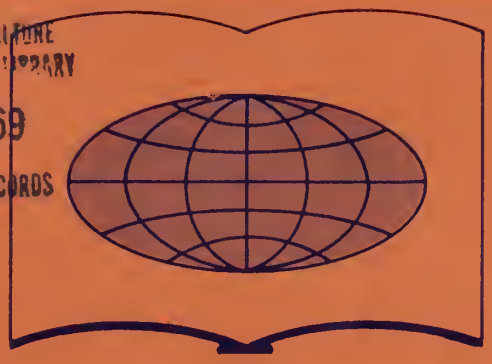

Volume 5 Number 14
July 4, 1969

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PESTICIDES DOCUMENTATION BULLETIN

Volume 5
July 4, 1969
Number 14

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A Bi-Weekly Publication of U.S. Department of Agriculture

OBJECTIVES AND SCOPE

The *Pesticides Documentation Bulletin* is compiled by the National Agricultural Library's Pesticides Information Center to facilitate national research efforts in all aspects of pest control. This bi-weekly index to the literature includes coverage of diseases, insects, nematodes, parasites, weeds and other pests affecting plants, animals, man, our natural resources and other values in man's environment. Special emphasis is given to the literature on toxicological, physiological and epidemiological aspects of pests and their control by chemical biological and integrated methods.

For broader coverage of literature on agriculture and related subjects, please consult the *Bibliography of Agriculture*, a monthly publication of the National Agricultural Library.

FORMAT

The *Bulletin* is a categorized bibliography, with citations arranged alphabetically by author under the following major subjects:

10 Entomology
20 Crop Protection
30 Livestock Protection
40 Commodity Protection
50 Environmental Contamination
55 Residues
60 Toxicology
65 Plant Physiology & Biochemistry
70 Chemistry
80 Engineering
90 Industry

Citations: Each citation consists of an accession number assigned serially with the last two digits representing the Bulletin's issue year, i.e. 3286-67. The citation number (minus the year) is used in all indices. Following the accession number is the full title of the article; all personal authors; an abbreviated journal title; volume, issue and inclusive page numbers; date of publication; language abbreviation, if other than English; and the National Agricultural Library's call number. Subject descriptors, patent or grant numbers, bibliographer's notes, and abstracts or extracts may follow each citation when appropriate.

Subject Index: Subject descriptors appear in the index followed by title arranged numerically by accession number. The Agricultural/Biological Vocabulary developed by the National Agricultural Library is used as a basic thesaurus of descriptors.

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The Herbicides Data File consists of reports on field tests conducted by the Crops Protection Research Branch, Crop Research Division, Agriculture Research Service. Each test record contains the following items of information:

Compound Tested
Company furnishing the compound
Author or Investigator
Test Sponsor
Date
Location
Mode of Application
Rates of Application
Soil Types
Carriers
Crops or Weeds tested with phytotoxicity ratings
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ACKNOWLEDGMENT

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Use of funds for printing this publication approved by the Director of the Bureau of the Budget (May 23, 1968).

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This publication reports research involving pesticides. It does not contain recommendations for their use, nor does it imply that the uses discussed here have been registered. All uses of pesticides must be registered by appropriate State and/or Federal agencies before they can be recommended.

CAUTION: Pesticides can be injurious to humans, domestic animals, desirable plants, and fish or other wildlife—if they are not handled or applied properly. Use all pesticides selectively and carefully. Follow recommended practices for the disposal of surplus pesticides and pesticide containers.

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TABLE OF CONTENTS

BIBLIOGRAPHY (Citations)

	Page
10 ENTOMOLOGY	1
Systematics	1
Physiology and Biochemistry	2
Genetics	9
Medical Entomology	11
20 CROP PROTECTION	11
Diseases	11
Arthropods	13
Nematodes	16
Weeds	16
Other Pests	18
30 LIVESTOCK PROTECTION	18
Diseases	18
Arthropods	20
Parasites	20
40 COMMODITY PROTECTION	21
Storage Diseases	*
Arthropods	21
Rodents and Other Pests	21
Microbial Contamination	*
50 ENVIRONMENTAL CONTAMINATION	21
55 RESIDUES	22
60 TOXICOLOGY	23
65 PLANT PHYSIOLOGY & BIOCHEMISTRY	24
70 CHEMISTRY	25
80 ENGINEERING	25
90 INDUSTRY	25
Economics	*
Education	25
Regulations	*
SUBJECT INDEX	27
BIOGRAPHICAL INDEX	85
AUTHOR INDEX	93
ORGANIZATIONAL INDEX	97

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Cynipidae, Insect taxonomy.

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Acanthobrahmaea, Brahmaea, Brahmaeidae, Insect morphology, Insect taxonomy, Ligustrum, Oleaceae, Plant hosts.

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E Titschack
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15 Mar 1967 509 H17V
Bibliography, Host indexing (plants), Insect identification, Insect names, Insect physiology, Insect taxonomy, Taeniothrips, Thysanoptera, Zoogeography.

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Agaristidae, Insect taxonomy, Pemphigostola synemonistis.

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R L Westcott
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C H Adams W H Cross H C Mitchell
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Anthonomus grandis, Biological control (insects), Bracon mellitor, Cotton, Hibernation, Humidity, Insect behavior, Insect biology, Insect rearing, Longevity, Parasitic insects, Sex behavior, Temperature.

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U S D A Home Gard Bull (122):8P
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Accident prevention, Bees, Chemical control (insects), Chlordane, Chlorinated hydrocarbons, Cicadidae, DDT, Insect physiology, Insecticides, Polistes, Venoms, Vespidae.

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M T AliNiazee D L Lindgren
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15 Aug 1969 421 J822
Carbon dioxide, Chemical control (insects), Dosage, Fumigation, Hydrocyanic acid, Imagos, Methyl bromide, Sitophilus granarius, Temperature, Tribolium confusum.

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Annu Rev Entomol 13:213-238 REF
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THE OLD HOUSE BORER IN EASTERN STATES.
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THE CONNECTIVE TISSUES OF INSECTS.
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1968 421 AN72
Electron microscopy, Histochemistry, Insect histology, Insect physiology, Insects.

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HONEY BEE PATHOLOGY.
L Bailey
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Apis mellifera, Bee diseases, Entomogenous bacteria, Entomogenous fungi, Predaceous mites, Protozoa.

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H G Baker P D Hurd
Annu Rev Entomol 13:385-414 REF
1968 421 AN72
Animal ecology, Bibliography, Insect ecology, Insect evolution, Plant ecology, Plant taxonomy, Pollination.

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THE RESPONSE OF A PREDATOR, HYPOASPIS ACULEIFER (CANESTRINI) (ACARINA:LAELAPIDAE), TO TWO SPECIES OF PREY.
P S Barker
Can J Zool 47(3):343-345 REF
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Feeding, Glycyphagus domesticus, Hypoaspis aculeifer, Insect behavior, Insect physiology, Mites, Oviposition, Predaceous insects, Reproduction, Tyrophagus putrescentiae.

8082-69
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M O Bashir T V Venratraman
Entomophaga 13(2):151-158
1968 421 EN835
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S D Beck J L Shane
J Insect Physiol 15(5):721-730 REF
May 1969 421 J825
Ecdysone, Insect physiology, Larvae, Ostrinia nubilalis.

8084-69
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P Belton
J Insect Physiol 15(5):731-741 REF
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Galleria mellonella, Insect physiology, Larvae, Muscles, Nervous system.

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1968 449.8 Z36
Drosophila, Insect ecology, Insect rearing.

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L M Birt B Christian
J Insect Physiol 15(4):711-719 REF
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Calliphoridae, Insect biochemistry, Insect physiology, Metamorphosis, Nitrogen compounds, Phaenicia cuprina.

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A CONTINOUSLY RECORDING FLIGHT MILL FOR INVESTIGATING THE EFFECT OF VOLATILE SUBSTANCES ON THE FLIGHT OF TEATHERED INSECTS.
J H Borden R B Bennett
J Econ Entomol 62(4):782-785 REF
15 Aug 1969 421 J822
Attractants, Dairy equipment, Dendroctonus pseudotsugae, Insect behavior, Insect flight, Pheromones, Trypodendron lineatum, Volatile substances.

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M Bouletreau J David
Entomophaga 12(2):187-197 REF
1967 421 EN835
Insect biology, Insect physiology, Larvae, Population, Pteromalidae. English abstract.

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EFFECTS OF INCREASED POLLINATOR LEVELS ON PRODUCTION OF THE HIGHBUSH BLUEBERRY, VACCINIUM CORYMBOSUM.
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15 Aug 1969 421 J822
Apis mellifera, Blueberries, Crop varieties, Crop yields, Insect behavior, Pollination.

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THE INCORPORATION OF AMINO-ALCOHOLS INTO THE PHOSPHOLIPIDS OF THE ADULT HOUSEFLY, MUSCA DOMESTICA.
R G Bridges J S Holden
J Insect Physiol 15(5):779-788 REF
May 1969 421 J825
Alcohols, Insect biochemistry, Musca domestica, Phospholipids.

8091-69
EFFECTS OF INTRODUCED IRRADIATED MALE GRAIN MITES ON POPULATION DEVELOPMENT.
G A Brown R Davis
J Econ Entomol 62(4):767-771
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Acarus siro, Biological control (insects), Cobalt isotopes, Gamma rays, Insect nutrition, Mites, Population.

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INSECTS AND THE PROBLEM OF AUSTRAL DISJUNCTIVE DISTRIBUTION.
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1967 421 AN72
Bibliography, Diptera, Insect evolution, Reviews, Zoogeography.

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D E Bryan C G Jackson R Patana
J Econ Entomol 62(4):765-767
15 Aug 1969 421 J822
Lespesia archippivora, Longevity, Ovulation, Parasitic insects, Reproduction, Spodoptera exigua, Tachinidae, Temperature.

8094-69
MOTION AND FLAGELLATION OF CLOSTRIDIUM BREVIFACIENS.
G E Bucher P Luthy
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Bacterial diseases (insects), Clostridium brevifaciens, Flagella, Insect diseases, Locomotion, Microbiology.

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W Burgdorfer M G R Varma
Annu Rev Entomol 12:347-376 REF
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Arboviruses, Bacteria, Bibliography, Insect vectors, Reviews, Rickettsial diseases, Virus diseases.

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Redia (SER 2)50:365-377
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Biological control (insects), Chrysomelidae, Dosage, Insect biology, Insect pests, Ionization, Irradiation, Leptinotarsa decemlineata, Metamorphosis, Mortality, Pupae, Radiation, Research, Solanaceae, Sterilization (insects). English summary. publication no. 366 of the EURATOM biology division.

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G M Chippendale B A Kilby
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Fat body, Hemolymph, Insect biochemistry, Insect physiology, Metamorphosis, Pieris brassicae, Proteins.

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T B Clark H C Chapman
J Invertebrate Pathol 13(2):312
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Culex salinarius, Inclusion bodies, Insect diseases, Polyhedroses.

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PRACTICAL IMPORTANCE OF RESISTANCE TO INSECTICIDES IN ANOPHELES. (FR)
J Coz J Hamon J Mouchet
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Anopheles, Biological control (insects), Carbamates, Chemical control (insects), Chemosterilants, Chlorinated hydrocarbons, Diehlorvos, Dieldrin, DDT, Fenthion, Insect genetics, Malathion, Medical entomology. Insecticide resistance of 14 species of Anopheles is discussed.

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D L Dahlman
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Cuticle, Insect genetics, Insect nutrition, Larvae, Manduca sexta, Pigments.

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R Dallai G Melis
Redia (SER 2)50:47-68 REF
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Glands (insects), Glycidol, Gryllus campestris, Insect physiology, Orthoptera, Reproductive organs, Spermatheca. English summary.

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MICROTUBULES IN THE SPERMATIDS OF THE SILKWORM (BOMBYX MORI L.). (RUS)
L V Danilova V N Vereiskaja
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Bombyx mori, Electron microscopes, Insect physiology, Spermatozoa. English summary.

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STUDIES ON THE BEHAVIOUR OF LUCILIA ILLUSTRIS MEIGEN AS A PARASITE OF VERTEBRATES UNDER EXPERIMENTAL CONDITIONS.
B Dasgupta P Roy
Parasitology 59(2):299-304
May 1969 448.8 P21
Amphibians, Birds, Fish, Insect behavior, Insect rearing, Mammals, Myiasis, Phaenicia, Reptilia.

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THE INFLUENCE OF BACILLUS THURINGIENSIS TOXINS ON VARIOUS PHYSIOLOGICAL CHARACTERS OF DROSOPHILA ADULTS. (FR)
J David C Vago
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Bacillus thuringiensis, Drosophila melanogaster, Insect physiology, Toxins. English abstract.

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A NONINCLUSION VIRUS OF BLOW-FLY LARVAE.
W A L David
J Invertebrate Pathol 13(2):310-311
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Calliphora, Insect diseases, Insect rearing, Larvae, Phormia.

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Culicidae, Electrophoresis, Insect biochemistry, Insect physiology, Proteins.

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T S Detinova
Annu Rev Entomol 13:427-450 REF
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Aging, Anopheles, Glossina, Insect biology, Population, Simuliidae, Siphonaptera, Statistical analysis.

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Acheta domesticus, Insect biochemistry, Insect eggs, Locusta migratoria migratorioides, Musca domestica, Periplaneta americana, Phosphagen.

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J J Drea G W Angalet W H Day
J Invertebrate Pathol 13(2):303-304
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Hypera postica, Insect diseases, Laboratory insects, Nosema.

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Aedes, Aerosols, Biological assay, Insect repellents, Simuliidae, Xenopsylla cheopis.

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ADULT HOUSEFLY CONTROL AGENTS. PATENT 3,454,638.
J D Early J P Chupp
Us Patent Office Offic Gaz 864(2):565
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Chemical control (insects), Halogen compounds, Insecticides, Musca domestica, Patents.

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F Engelmann
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Corpora allata, Endocrine glands, Insect behavior, Insect eggs, Insect nutrition, Insect physiology.

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M W Farnsworth
Genetics 61(2,PT 2, SUPPL):S18
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Drosophila, Insect genetics, Insect mutation, Insect physiology, Respiration.

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D Feir G Winkler
J Insect Physiol 15(5):899-904 REF
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Ecdysone, Insect biochemistry, Insect physiology, Larvae, Oncopeltus fasciatus.

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A R Friedman
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Anthonomus grandis, Carbamates, Coleoptera, Gryllidae, Insecticides, Musca domestica, Patents.

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THE PROTEIN NATURE OF THE SUBSTANCE INDUCING FEMALE MONOGAMY IN AEDES AEGYPTI. DESPOMMIER, D D.
M S Fuchs G B Craig
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R E Fye C D Bonham
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15 Aug 1969 421 J822
Cotton, Environment, Hibernation, Humidity, Insects, Plant residues, Regression analysis, Soil temperature, Stubble, Temperature.

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Arthropoda, Insect behavior, Insect ecology, Insect migration, Insect nutrition, Insect traps, Sand, Talitrus saltator. English summary.

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U Gerson
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Aphelinidae, Aphytis, Humidity, Insect biology, Insect nutrition, Parlatoria pergandii, Population, Predaceous insects.

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Bibliography, Glossina, Human diseases, Insect biology, Insect control, Insect nutrition, Insect physiology, Insect vectors, Livestock diseases, Population, Reviews.

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Bibliography, Forest insects, Fungi, Fungus diseases (plants), Insect ecology, Insect vectors, Symbiosis.

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IMPACT OF PATHOGENS, PARASITES, AND PREDATORS ON APHIDS.
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F A Harris E P Lloyd H C Lane E C Burt
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Carcinogens, Drosophila, Glands (insects), Hormones, Insect genetics, Insect physiology, Irradiation, Neoplasms, Nerves.

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M H Hassanein A M Afify H T Farghaly
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THE LENGTH OF LARVAL STAGE IN PYRETHROID-RESISTANT AND SUSCEPTIBLE STRAINS OF THE HOUSE FLY, MUSCA DOMESTICA L. (JA)
A Hayashi N Ikeno
Jap J Sanitary Zool 19(3):204-206 REF
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W F Hink J D Briggs
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T R Hoage D C Peters
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Blattella germanica, Carbon isotopes, Chlorinated hydrocarbons, Cuticle, DDT, Insect metabolism, Insect physiology, Insecticide resistant insects, Insecticides, Metabolites, Radioactive tracers, Regression analysis, TDE.

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USE OF THE MULTIPLE REGRESSION EQUATION IN THE PREDICTION OF THE INSECTICIDAL ACTIVITY OF ANTICHOLINESTERASE INSECTICIDES.
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Curculionidae, Insect anatomy, Insect physiology, Reproduction, Reproductive organs, Sitophilus granarius, Sitophilus zeamais, Spermatheca, Spermatozoa.

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A Kharazi-Pakdel
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B I Kiefer K Gross
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A U Kilic A Catalpinar N Adiguzel
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Chilo suppressalis, Humidity, Insect behavior, Insect biology, Insect morphology, Life cycle, Rice, Temperature, Tryporyza incertulas, Zoogeography.

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Insect anatomy, Insect identification, Insect taxonomy, Psyllidae, Trioza koreana, Trioza myohyangi, Trioza ohliqua obliqua, Zoogeography.

8151-69
CORRELATION OF NUCLEOLYTIC ACTIVITIES WITH THE STAGE OF GROWTH OF THE SILKWORM.
K Koga A Hara S Akune
J Insect Physiol 15(5):799-806 REF
May 1969 421 J825
Bombyx mori, Deoxyribonucleases, Insect biochemistry, Insect physiology, Ribonuclease.

8152-69
NEW ULTRACYTOLOGICAL FINDINGS IN INSECT NUCLEAR POLYHEDROSES.
A Krieg A M Huger
J Invertebrate Pathol 13(2):272-279 REF
Mar 1969 421 J826
Cytology, Electron microscopy, Galleria mellonella, Insect diseases, Nuclear polyhedrosis virus, Porthetria dispar.

Virogenesis and morphology of Borrelinavirus spp. have been studied in larvae of Galleria mellonella, Porthetria bispar, and Choristoneura murinana by electron-microscope investigations of ultrathin sections. Details are given on the development of virions from virogenic stroma, the polymorphism of virions (standard type virus rods, virus filaments, spherical and pleomorphic forms), and the formation and possible function of membraneous and fibrillar structures in the nuclei of infected fat cells.

8153-69
VARIATION-STATISTICAL RESEARCH ON THE FEMALE OF FORMICA LUGUBRIS ZETT. (GE)
H Kutter
Schweiz Entomol Ges Mitt 40(1/2):63-77
20 Jul 1967 420 SW6
Formicidae, Hair, Insect physiology, Myrmecocystus lugubris, Statistical analysis, Tables (data), Zoogeography. English and Italian summary.

8154-69
RECENT ADVANCES IN BEE COMMUNICATION AND ORIENTATION.
M Lindauer
Annu Rev Entomol 12:439-470 REF
1967 421 AN72
Bees, Bibliography, Chemoreceptors, Eyes, Insect behavior, Reproduction, Reviews.

8155-69
BIOLOGICAL INVESTIGATIONS ON PANDEMIS HEPARANA (DEN. AND SCHIFF.) WITH SPECIAL CONSIDERATION GIVEN TO THE FACTORS INDUCING DIAPAUSE AND INFLUENCING EGG LAYING. (GE)
E Mani
Schweiz Entomol Ges Mitt 40(3/4):145-203 REF
15 Apr 1968 420 SW6
Caterpillars, Diapause, Insect biology, Insect eggs, Insect nutrition, Insect physiology, Larvae, Mortality, Pandemis heparana, Temperature, Tortricidae. English and French summaries

8156-69
IN VITRO SYNTHESIS OF INJURY PROTEIN AND A COMPANION PROTEIN IN ORGANS OF PREPUPA OF GALLERIA MELLONELLA L..
M Marek
Compar Biochem Physiol 29(3):1231-1237 REF
Jun 1969 444.8 C73
Galleria mellonella, Insect biochemistry, Larvae, Proteins, Tissue culture.

8157-69
EFFECT OF IRRADIATION ON MATING PREFERENCE AND REPRODUCTION SUPPRESSION OF DROSOPHILA MELANOGASTER.
H C Mason M C Papageorgiou S W Jacklin
J Econ Entomol 62(4):818-821
15 Aug 1969 421 J822
Cohalt isotopes, Drosophila melanogaster, Gamma rays, Insect behavior, Reproduction, Sex behavior.

8158-69
ON THE EFFECT OF SYNTHETIC SYNERGISTS UPON THE KNOCKDOWN SPEED OF PYRETHROIDS AGAINST LARVAE OF THE COMMON HOUSE MOSQUITO, CULEX PIPIENS PALLENS COQUILLETT.
H Mitsubara
Agr Biol Chem 31(10):1130-1134
Oct 1967 385 AG8B
Culex pipiens pallens, Insecticides, Larvae, Pyrethrum, Synergists.

8159-69
PURIFICATION OF A CYTOPLASMIC-POLYHEDROSIS VIRUS OF THE SILKWORM, BOMBYX MORI.
S Miyajima I Kimura S Kawase
J Invertebrate Pathol 13(2):296-302
Mar 1969 421 J826
Biochemistry, Bombyx mori, Insect diseases, Polyhedroses, Virus purification.

8160-69
COMPOUNDS TESTED FOR CONTROL OF NOSEMA IN HONEY BEES.
J O Moffett J J Laekett J D Hitchcock
J Econ Entomol 62(4):886-889
15 Aug 1969 421 J822
Antibiotics, Apis mellifera, Bee diseases, Chemicals, Nosema disease.

8161-69
THE FINE-STRUCTURE OF THE EPIMASTIGOTE FORMS OF TRYPANOSOMA LEWISI IN THE RECTUM OF THE FLEA, NOSOPSYLLUS FASCIATUS.
D H Molyneux
Parasitology 59(1):55-66 REF
Feb 1969 448.8 P21
Gastrointestinal system, Insect diseases, Nosopsyllus fasciatus, Physiology, Trypanosoma lewisi.

8162-69
BIONOMICS OF SIRICIDAE.
F D Morgan
Annu Rev Entomol 13:239-252
1968 421 AN72
Cultural control (insects), Fungi, Insect behavior, Insect biology, Insect vectors, Population, Siricidae, Zoogeography.

8163-69
ANOPHELES MOUCHETI IN CAMEROON. (FR)
J Mouchet J Gariou
Entomol Med Cahiers 4(6):71-81 REF
1966 SB931.A1O3
Anopheles, Chemical control (insects), Chlorinated hydrocarbons, Dieldrin, DDT, Forest insects, Human diseases, Insect vectors, Insecticides, Malaria, Medical entomology. English summary.

8164-69
FOOD SELECTION BY GRASSHOPPERS.
G B Mulkern
Annu Rev Entomol 12:59-78 REF
1967 421 AN72
Acrididae, Bibliography, Insect biology, Insect nutrition.

8165-69
THE ROLE OF THE NEUROHORMONES IN THE SEXUAL DIFFERENTIATION OF LAMPYRIS NOCTILUCA. (FR)
J Naisse
J Insect Physiol 15(5):877-892 REF
May 1969 421 J825
Endocrine glands, Hormones, Insect morphology, Insect physiology, Lampyridae, Neuroendocrines, Parabiosis.

8166-69
ACID PHOSPHATASE ACTIVITY IN THE DIGESTIVE SYSTEM OF THE DESERT LOCUST SCHISTOCERCA GREGARIA (FORSKAL).
S N H Naqvi S H Ashrafi M A H Qadri
Australian J Biol Sci 21(5):1047-1052 REF
Oct 1968 442.8 AU72
Acid phosphatase, Acrididae, Biochemistry, Enzymes, Gastrointestinal system, Insect physiology, Nitrophenol, p-, Schistocerea gregaria.

8167-69
EXPERIENCES IN MASS REARING OF PROSPALTELLA PERNIOIOSI TOW. IN THE TRANSFORMED STUTTGART INSECTARIUM. (GE)
G Neuffer
Entomophaga 12(3):235-239
1967 421 EN835
Biologieal control (inseets), Inscet eontrol, Insect rearing, Prospaltella perniciosi.

8168-69
THE ROLE OF THE NERVOUS SYSTEM IN INSECT MORPHOGENESIS AND REGENERATION.
H Nucseh
Annn Rev Entomol 13:27-44 REF
1968 421 AN72
Antennae, Antheraea polyphemus, Eyes, Inseet physiology, Museles, Nervous system, Regeneration.

8169-69
THE LABIUM OF APHELOCHEIRUS AESTIVALIS F. AS COMPARED WITH THAT OF TYPICAL NAUCORIDAE (HETEROPTERA).
M C Parsons
Can J Zool 47(3):295-306 REF
May 1969 470 C16D
Apheloeheirus aestivalis, Inseet morphology, Inseet physiology, Inscet taxonomy, Naucoridae, Salivary glands (insects).

8170-69
PHENOXAZINONE SYNTHESIS IN DROSOPHILA MELANOGASTER.
J P Phillips H S Forrest
Genetics 61(2,PT 2.SUPPL).S47
1969 442.8 G28
Drosophila melanogaster, Enzymes, Inseet biochemistry, Metabolism, Pigments.

8171-69
ASSOCIATION AMONG SPECIES OF INFREQUENT OCCURRENCE: THE INSECT AND SPIDER FAUNA OF POLYPORUS BETULINUS (BULLIARD) FRIES.
D P Pielou E C Pielou
J Theor Biol 21(2):202-216
Nov 1968 442.8 J8223
Fungi, Inseet behavior, Inseet eeology, Polyporus betulinus, Population, Soeial insects, Spiders, Zoogeography.

8172-69
ON THE POSITIONAL SPECIFICITY OF PHOSPHOLIPASE A OF CERTAIN SPECIES OF MOSQUITOES.
R H Rao D. Subrahmanyam
Life Sci 8(10,PT 2):447-451 REF
15 May 1969 442.8 L62
Aedes aegypti, Anopheles stephensi, Culex pipiens, Inscct bioehemistry, Phospholipase.

8173-69
INVESTIGATION INTO THE MORPHOLOGY, TAXONOMY, AND BIOLOGY OF THE PODAPOLIPIDAE (ACARINA, TARSONEMINI) (UNDER SPECIAL CONSIDERATION, THE PARALLEL EVOLUTION OF THE GENERA FEUTARSOPOLIPUS AND DORSIPES WITH THEIR HOSTS (COLEOPT., CARABIDAE)). (GE)
H Regenfuss
Z Wiss Zool 177(3-4):183-282 REF
1968 410 Z3
Acarina, Carabidae, Inseet biology, Inseet evolution, Inseet morphology, Inscet taxonomy, Parasitie insects.

8174-69
THE ALARM-DEFENCE SYSTEM OF THE ANT LASIUS ALIENUS.
F E Regnier E O Wilson
J Insect Physiol 15(5):893-898
May 1969 421 J825
Formicidae, Inseet behavior, Inseet physiology, Inseet protective devices, Mandibular glands.

8175-69
DNASE AS A COMPONENT OF MULTI-ENZYME COMPLEXES IN THE BLOOD OF SATURNIID MOTIIS.
L A Riechers F W Mcyers S J Berry
J Insect Physiol 15(5):743-753
May 1969 421 J825
Deoxyribonueleases, Eleetrophoresis, Enzymes, Hemolymph, Hyalophora eecropia, Inseet biochemistry, Radioaetive traeers.

8176-69
REGULATION OF EXTERNAL RESPIRATION BY THE BOOK-LUNG SPIRACLES OF THE SPIDERS, ARANEUS DIADEMATUS CLERCK AND A. MARMOREUS CLERCK.
G L Robinson U Paim
Can J Zool 47(3):355-364 REF
May 1969 470 C16D
Araneus diadematus, Araneus marmoreus, Carbon dioxide, Insect biochemistry, Insect physiology, Inseet respiration, Oxygen, Respirometers, Spiders, Spiraeles.

8177-69
ACOUSTIC INTERNEURONS IN THE BRAIN OF NOCTUID MOTHS.
K D Roeder
J Insect Physiol 15(5):825-838 REF
May 1969 421 J825
Brain, Insect physiology, Nervous system, Noctuidae, Sense organs, Sound waves.

8178-69
SEX PHEROMONE SPECIFICITY: TAXONOMIC AND EVOLUTIONARY ASPECTS IN LEPIDOPTERA.
W L Roeldfs A Comeau
Science 165(3891):398-399 REF
25 Jul 1969 470 SCI2
Geleehiidae, Inseet evolution, Inseet physiology, Pheromones, Sex attractants, Tortricidae.

8179-69
SEX PHEROMONE SPECIFICITY: TAXONOMIC AND EVOLUTIONARY ASPECTS IN LEPIDOPTERA.
W L Roelofs A Comeau
Science 165(3891):398-400
25 Jul 1969 470 SCI2
Inseet taxonomy, Lepidoptera, Pheromones, Reproduction.

8180-69
ABSORPTION OF DDT AND METABOLISM OF DDT AND RELATED COMPOUNDS BY DDT-RESISTANT CODLING MOTHS.
H A Rose G H S Hooper
J Econ Entomol 62(4):857-861 REF
15 Aug 1969 421 J822
Carbon isotopes, Chlorinated hydroearbons, DDT, Inseet metabolism, Insecticide resistant inseets, Laspeyresia pomonella, Metabolites, Radioactive traeers, TDE.

8181-69
THE EVOLUTION AND PAST DISPERSAL OF THE TRICHOPTERA.
H H Ross
Annn Rev Entomol 12:169-206 MAP REF
1967 421 AN72
Bibliography, Inseet adaptation, Inseet evolution, Trichoptera, Zoogeography.

8182-69
BIOLOGICAL AND ECOLOGICAL STUDY OF THE HYMENOPTEROUS PARASITES OF THE EGGS OF CEREAL BUGS. (FR)
M Safavi
Entomophaga 13(5):381-495 MAP REF
1968 421 EN835
Grain, Inseet biology, Inseet ccology, Inseet eggs, Pentatomidae, Predaeeous inseets, Reviews. English abstraet.

8183-69
MOVEMENT OF CALCIUM AND MAGNESIUM ACROSS THE MIDGUT EPITHELIUM OF THE AMERICAN COCKROACH.
J R Sauer R R Mills
J Insect Physiol 15(5):789-797 REF
May 1969 421 J825
Calcium, Gastrointestinal system, Inseet physiology, Magnesium, Periplaneta americana, Spectrophotometry.

8184-69
ANALYSIS OF SEQUENCES OF MATINGS IN DROSOPHILA MATING CHAMBER EXPERIMENTS.
H E Schaffer
Genetics 61(2,PT 2,SUPPL):S53
1969 442.8 G28
Drosophila melanogaster, Inseet behavior, Markov chains, Mathematical analysis, Reproduction, Sex behavior.

8185-69
AIR SWALLOWING- AN EFFECTIVE PROTECTION AGAINST DROWNING IN LARVAE OF EPISTROPHE BALTEATA (SYRPHIDAE DIPT.). (GE)
F Schneider
Schweiz Entomol Ges Mitt 40(3/4):253-256
15 Apr 1968 420 SW6
Diapause, Epistrophe balteata, Hyalopterus pruni, Inseet behavior, Insect ecology, Inscct protective deviees, Larvae, Phragmites, Predaeeous inseets, Syrphidae, Zoogeography.

8186-69
CHEMOSENSORY BASES OF HOST PLANT SELECTION.
L M Schoonhoven
Annn Rev Entomol 13:115-136 REF
1968 421 AN72
Chemoreceptors, Eleetrophysiology, Feeding, Food habits, Insect behavior, Inseet nutrition, Inseet physiology, Phytophagous inseets, Plants.

8187-69
PHENYLALANINE INDUCED ENHANCEMENT OF DROSOPTERIN FORMATION IN THE EYE COLOR MUTANT OR66K (ORANGE) OF DROSOPHILA MELANOGASTER.
I Schwinek
Genetics 61(2,PT 2,SUPPL):S53-S54
1969 442.8 G28
Drosophila melanogaster, Eyes, Inseet bioehemistry, Phenylalanine, Pigments.

8188-69
DIELDRIN RESISTANCE IN LUCILIA SERICATA (MEIG) FROM CO. DUBLIN, EIRE.
R D Shaw K W Page G G Blaekman
Vet Rec 82(26):755-757
29 Jun 1968 41.8 V641
Aldrin, Dieldrin, DDT, Inseeticide resistant inseets, Inseeticides, Lindane, Lucilia euprina, Phaenieia serieata.

8189-69
CONTROL OF EUROPEAN FOULBROOD DISEASE OF THE HONEY BEE.
H Shimanuki T Lehnert D A Knox E W Herbert
J Econ Entomol 62(4):813-814
15 Aug 1969 421 J822
Apis mellifera, Ethylene oxide, European foulbrood, Insect diseases, Oxytetraeyeline.

8190-69
SYNECOLOGICAL STUDIES ON FLIES (ANTHOMYIINI) IN CULTIVATED FIELDS. (A CONTRIBUTION TO AGRARECOLOGY). (GE)
F Siek
Z Wiss Zool 176(3-4):287-330 MAP REF
1967 410 Z3
Anthomyiidae, Field studies, Inseet biology, Inseet ecology. English abstraet.

8191-69
EFFECTS OF SUB-LETHAL DOSAGES OF PARATHION AND CARBARYL ON THE BIOLOGY OF DYSDERCUS KOENIGII FABRICIUS.
H Singh R Lal
Plant Protect Bull 19(3):12-20
1967 421 P69

Biochemistry, Carbamates, Carbaryl, Chemical control (insects), Dosage, Dysdercus koenigi, Insect biology, Insecticides, Mortality, Organophosphorus compounds, Parathion, Pyrrhocoridae.

8192-69
FEEDING AND REPRODUCTION OF THE GRAIN AND THE MUSHROOM MITE ON WOOD-INHABITING HYMENOMYCETES.
R N Sinha R D Whitney
J Econ Entomol 62(4):837-840 REF
15 Aug 1969 421 J822
Acarus siro, Fungus diseases (plants), Insect nutrition, Mites, Reproduction, Tree diseases, Tyrophagus putrescentiae, Wood destroying fungi.

8193-69
P32-LABELING OF COMMON MALARIA MOSQUITOES: ASSIMILATION BY LARVAE AND RETENTION AND TRANSFER DURING MATING.
B J Smittle R S Patterson C S Lofgren
J Econ Entomol 62(4):851-853
15 Aug 1969 421 J822
Anopheles quadrimaculatus, Imagos, Insect metabolism, Insect nutrition, Larvae, Phosphorus isotopes, Radioactive tracers, Semen, Sex behavior, Water.

8194-69
ACTIVITIES IN UNFERTILIZED AND FERTILIZED DROSOPHILA EGGS OF ENZYMES IN THE NUCLEIC ACID BIOSYNTHETIC PATHWAY.
L A Snyder E S Goldstein
Genetics 61(2,PT 2,SUPPL):S56
1969 442.8 G28
Drosophila melanogaster, Eggs, Enzymes, Insect biochemistry, Insect physiology, Metabolism, Nucleic acids.

8195-69
SPECTRUM ANALYSIS OF THE LIGHT EMITTED BY LUCIOLA LUSITANICA (CHARP.). (IT)
F Strumia
Redia (SER 2)50:345-349
1967 421 R241
Coleoptera, Insect physiology, Lampyridae, Light, Luciola lusitanica, Luminescence, Spectra, Spectroscopy. English summary.

8196-69
INFLUENCE OF FOOD ON THE FECUNDITY OF CHRYSOPA CARNEA STEPHENS (NEUROPTERA, CHRYSOPIDAE).
R A Sundby
Entomophaga 12(5):475-479
1967 421 EN835
Chrysopa carnea, Fertility, Insect nutrition, Predaceous insects.

8197-69
COLOR AND NATURAL PRODUCTS ATTRACTING THE ADULT SUGARBEET ROOT MAGGOT IN SOUTHCENTRAL IDAHO.
A A Swenson W E Peay
J Econ Entomol 62(4):910-912
15 Aug 1969 421 J822
Attractants, Color, Crop losses, Insect biology, Insect ecology, Insect traps, Plant extracts, Sandy soils, Soil series, Sugar, Sugar beets, Tetanops myopaeformis.

8198-69
INEFFECTIVENESS OF A MICROSPORIDIAN AND A GRANULOSIS VIRUS IN ACTIVATING A CYTOPLASMIC POLYHEDROSIS VIRUS IN THE ALFALFA CATERPILLAR, COLIAS EURYTHEME.
Y Tanada
J Invertebrate Pathol 13(2):313-315
Mar 1969 421 J826
Colias eurytheme, Granuloses, Insect diseases, Microsporidia, Polyhedroses.

8199-69
FORMATION OF TUMORLIKE LESIONS IN THE COCKROACH LEUCOPHAEA MADERAE AFTER NERVE SEVERANCE.
R L Taylor
J Invertebrate Pathol 13(2):167-187 REF
Mar 1969 421 J826
Electron microscopy, Histology, Inflammation, Insect diseases, Insect physiology, Leucophaea maderae, Nerves.

8200-69
THE ROLE OF SHORT INFRA-RED RAYS, ON THE EGG LAYING WORKERS OF THE ANT DOLICHODERUS QUADRIPUNCTATUS L.. (FR)
C Tdrossian
Paris Soc Biol Compt Rend 160(7):1522-1525
14 Jan 1967 442.9 P21
Formicidae, Infrared rays, Insect eggs, Insect physiology, Oviposition.

8201-69
PHOTOPERIOD AND TEMPERATURE AS FACTORS CONTROLLING THE DIAPAUSE OF THE SUNFLOWER MOTH, HOMOEOSOMA ELECTELLUM.
G L Teetes P L Adkisson N M Randolph
J Insect Physiol 15(5):755-761 REF
May 1969 421 J825
Homoeosoma electellum, Insect physiology, Larvae, Metamorphosis, Photoperiodism, Temperature.

8202-69
THE RESIDUAL OF N,N,N',N'-TETRAMETHYL-PPIPERIDINOPHOSPHONIC DIAMIDE AFTER INJECTION, TARSAL CONTACT, AND TOPICAL APPLICATION TO THE BOLL WEEVIL.
A C Terranova
J Econ Entomol 62(4):821-823 REF
15 Aug 1969 421 J822
Anthonomus grandis, Chemosterilants, Chromatography, Insect metabolism, Insecticide application, Tetramethyl-p-piperidinophosphonic diamide, N,N,N',N'-.

8203-69
INSECTICIDE-CYTOPLASMIC INTERACTIONS IN INSECTS AND VERTEBRATES.
L C Terriere
Annu Rev Entomol 13:75-98 REF
1968 421 AN72
Benzene hexachloride, Biochemistry, Chlorinated hydrocarbons, Cytoplasm, DDT, Insecticides, Microsomes, Organophosphorus compounds, Pyrethrum, Vertebrates.

8204-69
ENTOMOPHTHORA PYRIFORMIS SP. N. A FUNGUS PARASITE OF THE APHIDIDAE. (FR)
G Thoizon
Entomophaga 12(3):303-307 REF
1967 421 EN835
Aphididae, Entomogenous fungi, Entomophthora, Taxonomy. English abstract.

8205-69
POLLEN GATHERING OF HONEY BEES REDUCED BY PESTICIDE SPRAYS.
F E Todd C B Reed
J Econ Entomol 62(4):865-867
15 Aug 1969 421 J822
Alfalfa, Apis mellifera, Chlorinated hydrocarbons, Endosulfan, Insect behavior, Insecticides, Naled, Organophosphorus compounds, Poisoning, Pollination, Safflower, Spraying, Toxaphene.

8206-69
PREDATORS AND PARASITES OF APHYTIS (HYM., APHELINIDAE). (FR)
R Traboulsi
Entomophaga 13(4):345-355 REF
1968 421 EN835
Aphytis, Biological control (insects), Encyrtidae, Insect biology, Insect taxonomy, Predaceous insects, Pyemotidae. English abstract.

8207-69
GUT ABSORPTION.
J E Treherne
Annu Rev Entomol 12:43-58 REF
1967 421 AN72
Amino acids, Bibliography, Insect physiology, Ions, Lipids, Sugars, Water.

8208-69
COMPARISON TESTS BETWEEN VARIOUS ACTIVE INGREDIENTS EMPLOYED DURING 1966 IN THE CONTROL OF THE FLEA BEETLE OF THE BEET (CHAETOCNEMA TIBIALIS). (IT)
V Tullio D Ponis
Giornate Fitopatol 339-344
26 Mar 1967 SB599.G5
Beets, Chaetocnema tibialis, Chemical control (insects), Chlorinated hydrocarbons, Diazinon, DDT, Heptachlor, Organophosphorus compounds. The experimental product DC 70 proved effective. Other less effective insecticides were also tested.

8209-69
ARTIFICIAL DIETS FOR LARVAE OF THE ORIENTAL FRUIT MOTH.
M E Tzanakakis J H H Phillips
J Econ Entomol 62(4):879-882 REF
15 Aug 1969 421 J822
Experimental insects, Grapholitha molesta, Insect rearing, Larvae.

8210-69
CARBOHYDRATES IN THE HAEMOLYMPH OF THE CRICKET, ACHETA DOMESTICUS.
C M Wang R L Patton
J Insect Physiol 15(5):861-866 REF
May 1969 421 J825
Acheta domesticus, Carhohydrates, Hemolymph, Insect biochemistry.

The carbohydrates in the hemolymph of the house cricket have been isolated and determined by standard analytical methods. Glucose tends to remain constant in all stages with the principal fluctuation attributed to the production and utilization of trehalose.

8211-69
CONTRAST PERCEPTION IN EYE COLOUR MUTANTS OF DROSOPHILA MELANOGASTER AND DROSOPHILA SUBOBSCURA.
R Wehner G Gartenmann T Jungi
J Insect Physiol 15(5):815-823 REF
May 1969 421 J825
Color, Drosophila melanogaster, Drosophila subobscura, Eyes, Insect physiology, Vision.

8212-69
HAEMOCYTE ACTIVITY IN RELATION TO EPIDERMAL CELL GROWTH, CUTICLE SECRETION, AND CELL DEATH IN A METAMORPHOSING CYCLORRHAPHAN PUPA.
J M Whitten
J Insect Physiol 15(5):763-778 REF
May 1969 421 J825
Cuticle, Cytology, Electron microscopy, Insect physiology, Metamorphosis, Pupae, Sarcophaga bullata.

8213-69
MECHANICAL AND PHYSIOLOGICAL DEFENSE REACTIONS OF AN APHID SPECIES (APHIDIDAE) AGAINST ICHNEUMONID WASPS (HYMENOPTERA). (GE)
H Wilbert
Entomophaga 12(2):127-137 REF
1967 421 EN835
Aphididae, Ichneumonidae, Insect physiology, Insect protective devices, Predaceous insects. English abstract.

8214-69
SEX ATTRACTION AND MATING OF LESSER PEACH TREE BORER MOTHS.
T T Y Wong M L Clevcland D G Davis
J Econ Entomol 62(4):789-792
15 Aug 1969 421 J822
Apples, Insect behavior, Peaches, Sex behavior, Synanthedon pictipes.

8215-69
AN EPIZOOTIC DISEASE OF TARICHIUM (ENTOMOPHTHORACEAE) ON THE LARVAE OF OCNOGYNA PARASITA HBN. (LEPIDOPTERA, ARCTIIDAE). (FR)
J Wuest G Turian
Schweiz Entomol Ges Mitt 40(1/2):96-99
20 Jul 1967 420 SW6
Arctiidae, Entomogenous fungi, Entomophthoraceae, Epizootic diseases, Insect diseases, Larvae, Mycology, Nomenclature, Ocnogyna, Parasitism, Spores.

8216-69
DEVELOPMENT OF CONTROLLED CONDITIONS FOR THE STUDY OF RED STELE DISEASE ON STRAWBERRIES.
W K Wynn
Boyce Thompson Inst Contrib 24(4 JUL-SEP):95-102 REF
1968 451 B69
Biochemistry, Development, Fungus diseases (plants), Growth, Immunization, Phytophthora fragariae, Plant disease resistance, Red stele, Roots, Sporangia, Strawberries, Temperature.

8217-69
PIT CONSTRUCTION BY MYRMELEONTID LARVAE.
G J Youthed V C Moran
J Insect Physiol 15(5):867-875
May 1969 421 J825
Insect behavior, Larvae, Myrmeleontidae, Traps.

GENETICS

8218-69
CHROMATOGRAPHIC COMPARISON OF PTERIDINE LEVELS IN FOUR WHITE LOCUS ALLELES OF DROSOPHILA MELANOGASTER.
J Bennett K W Bennett
Genetics 61(2,PT 2,SUPPL):S3
1969 442.8 G28
Alleles, Chromatography, Drosophila melanogaster, Insect biochemistry, Insect genetics, Pteridine.

8219-69
RADIATION INDUCED INCREASE IN FITNESS IN DROSOPHILA SIMULANS.
B G Blaylock
Genetics 61(2,PT 2,SUPPL):S5
1969 442.8 G28
Drosophila simulans, Insect genetics, Population, Radiation.

8220-69
Y-AUTOSOME TRANSLOCATIONS IN DROSOPHILA.
G E Brosseau
Genetics 61(2,PT 2,SUPPL):S6-S7
1969 442.8 G28
Chromosomes, Cytogenetics, Drosophila.

8221-69
THE PRODUCTIVITY OF FOUR INBRED STRAINS OF DROSOPHILA MELANOGASTER.
L Butler
Can J Zool 47(3):313-321 REF
May 1969 470 C16D
Drosophila melanogaster, Insect genetics, Insect mutation, Insect rearing, Reproduction.

8222-69
ALLELIC COMPLEMENTATION AND GENETIC FINE STRUCTURE AT THE RUDIMENTARY LOCUS OF DROSOPHILA MELANOGASTER.
P S Carlson
Genetics 61(2,PT 2,SUPPL):S8
1969 442.8 G28
Alleles, Drosophila melanogaster, Insect genetics.

8223-69
TRIPLOIDY IN NATURAL POPULATIONS OF BLACK FLIES PROSIMULIUM MACROPYGA LUNDSTR (SIMULIIDAE, DIPTERA). (RUS)
L A Chubareva
Tsitologiya 10(6):750-754 REF
1968 442.8 T78
Insect genetics, Parthenogenesis, Polyploidy, Population, Prosimulium, Simuliidae. English summary.

8224-69
SONLESS, A SEX-RATIO ANOMALY IN DROSOPHILA MELANOGASTER CAUSED BY AN INTERACTION OF CYTOPLASM AND A SEX-LINKED GENE.
J J Colaianne A E Bell
Genetics 61(2,PT 2,SUPPL):S11
1969 442.8 G28
Cytoplasm, Drosophila melanogaster, Genes, Insect genetics.

8225-69
THE EMBRYOGENESIS OF THE LARVAL HEAD OF SIMULIUM VENUSTUM SAY (DIPTERA: NEMATOCERA).
D A Craig
Can J Zool 47(4):495-503 REF
Jul 1969 470 C16D
Diptera, Embryology, Insect eggs, Insect genetics, Insect morphology, Insect physiology, Larvae, Simulium venustum.

8226-69
THE INFLUENCE OF LINKAGE PHASE ON RECOMBINATION RATES IN TRIBOLIUM.
D C Englert
Genetics 61(2,PT 2,SUPPL):S16
1969 442.8 G28
Insect genetics, Sex, Statistical analysis, Temperature, Tribolium castaneum.

8227-69
GENETIC AND ENVIRONMENTAL VARIABILITY FOR BRISTLES IN DROSOPHILA.
L C Erway
Genetics 61(2,PT 2,SUPPL):S17
1969 442.8 G28
Chromosomes, Drosophila, Insect genetics, Larvae, Population, Temperature.

8228-69
THE EVOLUTION AND GENETICS OF INSECT BEHAVIOUR.
A W Ewing A Manning
Annu Rev Entomol 12:471-494 REF
1967 421 AN72
Bees, Drosophila, Evolution, Gryllidae, Insect behavior, Insect genetics, Lepidoptera, Trichoptera.

8229-69
PRELIMINARY LABORATORY STUDY OF THE EFFECT OF X RAYS ON THE FERTILITY OF CARPOCAPSA POMONELLA (LASPEYRESIA POMONELLA L.). (FR)
A Fossati J Stahl M Baggiolini R Murbach
Schweiz Entomol Ges Mitt 40(3/4):263-269 REF
15 Apr 1968 420 SW6
Biological control (insects), Dosage, Fertility, Gamma rays, Insect genetics, Insect pests, Laspeyresia pomonella, Olethreutidae, Radiation, Sterilization, X-rays.

8230-69
HETEROZYGOSITY IN INBRED LINES OF TRIBOLIUM CASTANEUM.
R Goodwill F D Enfield
Genetics 61(2.PT 2.SUPPL):S21-S22
1969 442.8 G28
Insect genetics, Population, Tribolium castaneum.

8231-69
CARNITINE ACETYLTRANSFERASE IN DEVELOPING AND MATURE SPERM OF WILD-TYPE AND MUTANT DROSOPHILA MELANOGASTER.
B W Greer R W Newburgh
Genetics 61(2,PT 2,SUPPL):S19-S20
1969 442.8 G28
Carnitine, Drosophila melanogaster, Enzymes, Insect biochemistry, Insect mutation, Insect physiology, Spermatozoa.

8232-69
INDUCTION OF DUPLICATIONS OF GENES WHICH SPECIFY ENZYMES IN DROSOPHILA MELANOGASTER.
E H Grell
Genetics 61(2,PT2. SUPPL):S23
1969 442.8 G28
Drosophila melanogaster, Enzymes, Genes, Insect genetics.

8233-69
STERILITY, LETHALITY AND SEGREGATION RATIOS IN XYY MALES OF DROSOPHILA MELANOGASTER.
R F Grell
Genetics 61(2,PT 2.SUPPL):S23-S24
1967 442.8 G28
Drosophila melanogaster, Insect genetics, Mortality, Sex, Sterility.

8234-69
EVIDENCE FOR A TRANSPOSABLE ELEMENT WHICH CAUSES REVERSIBLE GENE INACTIVATION IN DROSOPHILA MELANOGASTER.
B H Judd
Genetics 61(2,PT 2.SUPPL):S29
1969 442.8 G28
Drosophila melanogaster, Genes, Insect genetics.

8235-69
THE COMPLEMENTATION MAP OF MUTATIONS IN A SMALL REGION OF THE X-CHROMOSOME OF DROSOPHILA MELANOGASTER.
T C Kaufman M W Shen B H Judd
Genetics 61(2,PT 2.SUPPL):S30-S31
1969 442.8 G28
Chromosomes, Drosophila melanogaster, Ethyl methanesulfonate, Insect genetics, Insect mutation, Mutagens, X-rays.

8236-69
RECIPROCAL FERTILITY AMONG FIVE POPULATIONS OF ANOPHELES ALBIMANUS.
W J Keppler J B Kitzmiller
Genetics 61(2,PT 2.SUPPL):S31
1969 442.8 G28
Anopheles albimanus, Fertility, Insect genetics, Population.

8237-69
ULTRASTRUCTURAL STUDY OF HYBRID STERILITY IN DROSOPHILA PAULISTROM.
R P Kernaghan L Ehrman
Genetics 61(2, PT 2.SUPPL):S31
1969 442.8 G28
Drosophila paulistorum, Insect genetics, Insect physiology, Sterility.

8238-69
THE SYNAPTOMERE-ZYGOSOME-RECOMBINASE HYPOTHESIS OF MEIOTIC CROSSING OVER IN DROSOPHILA.
R C King
Genetics 61(2,PT 2.SUPPL):S32
1969 442.8 G28
Drosophila, Enzymes, Insect genetics, Meiosis.

8239-69
LAMPBRUSH CHROMOSOMES AND MULTIPLE NUCLEOLI OF ORTHOPTERA. (GE)
W Kunz
Chromosoma 21(4):446-462

06 Jun 1967 442.8 C46
Chromosomes, Cytology, Insect genetics, Meiosis, Orthoptera. English abstract.

8240-69
GENETIC CONTROL OF A SEX INFLUENCED QUANTITATIVE TRAIT IN TRIBOLIUM CASTANEUM.
E L Lange A E Bell
Genetics 61(2,PT 2.SUPPL):S35
1969 442.8 G28
Chromosomes, Insect genetics, Sex, Tribolium castaneum.

8241-69
INHERITANCE OF SEMI-STERILITY AND TRANSMISSION OF CHROMOSOME REARRANGEMENTS AND FRAGMENTS FOR 3 GENERATIONS IN THE LARGE MILKWEED BUG.
L E LaChance M Degrugillier
Genetics 61(2,PT 2.SUPPL):S34
1969 442.8 G28
Chromosomes, Insect genetics, Oncopeltus fasciatus, Sterility, X-rays.

8242-69
THE SEMISPECIES AND THE TRANSITIONAL POPULATIONS OF DROSOPHILA PAULISTORUM.
E Lee O Pavlovsky Th Dobzhansky
Genetics 61(2,PT 2,SUPPL):S15
1969 442.8 G28
Drosophila paulistorum, Insect genetics, Population, Zoogeography.

8243-69
IN VITRO GROWTH OF THE INFECTIVE AGENT RESPONSIBLE FOR THE SEX RATIO CONDITION IN DROSOPHILA BIFASCIATA.
E A Leventhal
Genetics 61(2,PT 2.SUPPL):S36
1969 442.8 G28
Drosophila, Insect genetics, Sex, Tissue culture.

8244-69
GENETIC VARIABILITY AND COMPETITIVE PERFORMANCE IN SPECIES OF DROSOPHILA.
B R Levin
Genetics 61(2,PT 2.SUPPL):S36-S37
1969 442.8 G28
Drosophila, Insect behavior, Insect genetics.

8245-69
CHROMOSOME ABERRATIONS ASSOCIATED WITH RECESSIVE SEX-LINKED LETHALS INDUCED BY TWO ALKYLATING CHEMICALS IN MATURE SPERMATOZOA OF DROSOPHILA.
J K Lim L A Snyder
Genetics 61(2,PT 2.SUPPL):S37
1969 442.8 G28
Chromosomes, Cytogenetics, Drosophila, Lethal factor, Mutagens.

8246-69
MULTIPLE PHENE VARIEGATION OF A PLEIOTROPIC GENE OF DROSOPHILA MELANOGASTER.
J C Lucchesi W L Bischoff
Genetics 61(2,PT 2.SUPPL):S37-S38
1969 442.8 G28
Drosophila melanogaster, Genes, Insect genetics.

8247-69
PHENOTYPIC POLYMORPHISM IN APHIDIUS SMITHI SHARMA SUBBA RAO (HYMENOPTERA, APHIDIIDAE).
M Mackauer
Entomophaga 13(4):281-287
1968 421 EN835
Aphidius smithi, Insect genetics, Polymorphism.

8248-69
DETECTION AND PARTIAL CHARACTERIZATION OF A CROSSOVER SUPPRESSOR ON CHROMOSOME V OF THE HOUSE FLY.
I C McDonald
Genetics 61(2,PT 2.SUPPL):S39-S40
1969 442.8 G28
Chromosomes, Insect genetics, Musca domestica.

8249-69
GENETIC MAPPING OF BEHAVIORAL MUTANTS IN DROSOPHILA MELANOGASTER BY COUNTERCURRENT DISTRIBUTION.
J R Merriam S Benzer
Genetics 61(2,PT 2.SUPPL):S40
1969 442.8 G28
Drosophila melanogaster, Ethyl methanesulfonate, Insect behavior, Insect genetics, Statistical analysis.

8250-69
CAFFEINE AND RADIATION INDUCED MUTATIONS IN DROSOPHILA MELANOGASTER.
S Mittler M M Callaghan
Genetics 61(2,PT 2.SUPPL):S41
1969 442.8 G28
Caffeine, Drosophila melanogaster, Insect genetics, Mutagens, X-rays.

8251-69
CYTOGENETIC EFFECTS OF HYDROGEN FLUORIDE ON DROSOPHILA MELANOGASTER.
A H Mohamed P A Kemner
Genetics 61(2,PT 2.SUPPL):S41-S42
1969 442.8 G28
Cytogenetics, Drosophila melanogaster, Hydrofluoric acid, Mutagens.

8252-69
EFFECTS OF CONTROLLED HETEROZYGOSIS ON VIABILITY IN DROSOPHILA MELANOGASTER.
R Moree
Genetics 61(2,PT 2.SUPPL):S42
1969 442.8 G28
Drosophila melanogaster, Insect genetics, Polymorphism, Population, Viability.

8253-69
RELATION BETWEEN HOMOZYGOUS VIABILITY AND AVERAGE DOMINANCE IN DROSOPHILA MELANOGASTER.
N E Morton C S Chung L D Friedman
Genetics 60(3):601-614 REF
Nov 1968 442.8 G28
Chromosomes, Drosophila melanogaster, Insect genetics.

8254-69
NATURAL SELECTION ON THE DEGREE OF DOMINANCE OF VIABILITY POLYGENES IN DROSOPHILA MELANOGASTER.
T Mukai
Genetics 61(2,PT 2.SUPPL):S42
1969 442.8 G28
Dominance, Drosophila melanogaster, Insect genetics, Natural selection, Population.

8255-69
GENETIC AND ENVIRONMENTAL INFLUENCES UPON THE VIABILITY OF DROSOPHILA MELANOGASTER METAFEMALES.
J C Neeley
Genetics 61(2,PT 2.SUPPL):S43
1969 442.8 G28
Drosophila melanogaster, Insect ecology, Insect genetics, Sex, Viability.

8256-69
X-RAY INDUCED REVERSAL OF HETEROCHROMATIZATION IN MALE MEALY BUGS.
U Nur
Genetics 61(2,PT 2.SUPPL):S44
1969 442.8 G28
Chromosomes, Cytogenetics, Meiosis, Pseudococcidae, X-rays.

8257-69
MATERNAL INFLUENCE OF THE OUHI STRUCTURAL GENE OF OCTANOL DEHYDROGENASE IN INTRA-AND INTERSPECFIC HYBRIDS OF D. METZII, D. PELLEWAE, AND D. LETICIAE.
S B Pipkin T Bremner
Genetics 61(2,PT 2,SUPPL):S48
1969 442.8 G28
Drosophila, Electrophoresis, Enzymes, Hybrids, Insect genetics.

8258-69
CHROMOSOME INTERACTIONS AFFECTING MATING SPEED IN DROSOPHILA ROBUSTA.
S Prakash
Genetics 60(3):589-600
Nov 1968 442.8 G28
Chromosomes, Drosophila robusta, Hormones, Insect behavior, Insect genetics, Sex behavior.

8259-69
ON THE ARRANGEMENT OF GENES OF 28S AND 18S RIBOSOMAL RNA'S IN DROSOPHILA MELANOGASTER.
G Quagliarotti F M Ritossa
J Molec Biol 36(1):57-69 REF
28 Aug 1968 442.8 J8224
Breeding, Cell nucleus, Chromosomes, Columns (process), Drosophila melanogaster, Extracts, Genes, Insect genetics, Ribonucleic acid, Ribosomes, Tables (data).

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THE POPULATION GENETICS OF INSECT INTRODUCTION.
C L Remington
Annu Rev Entomol 13:415-426 REF
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Drosophila, Insect evolution, Insect genetics, Population.

8261-69
THE EMBRYOLOGY OF LYTTA VIRIDANA LE CONTE (COLEOPTERA: MELOIDAE). IV. CHROMATIN ELIMINATION.
J G Rempel N S Church
Can J Zool 47(3):351-353 REF
May 1969 470 C16D
Chromatin, Embryology, Insect genetics, Lytta viridana, Meloidae, Photomicrography.

8262-69
CHROMOSOMES OF THE TSETSE FLY, GLOSSINA PALPALIS R.-D..
K Riordan
Parasitology 58(4):835-838 REF
Nov 1968 448.8 P21
Chromosomes, Glossina palpalis, Insect genetics, Insect taxonomy.

8263-69
ASSOCIATION OF SOMATIC CELL LESIONS WITH 3-BROMODEOXYORIDINE INCORPORATION IN ONA OF DROSOPHILA.
R M Rizki T M Rizki
Genetics 61(2,PT 2,SUPPL):S50
1969 442.8 G28
Autoradiography, Cytogenetics, Drosophila melanogaster, Insect biochemistry, Insect genetics.

8264-69
QUANTITATIVE DETERMINATION OF DNA CONTENT DURING FORMATION OF ONE OF THE PUFFS AND ONE OF THE BALBIANI RINGS IN CHIRONOMUS DORSALIS. (RUS)
T E Sebeleva
Tsitologiya 10(6):765-769 REF
1968 442.8 T78
Chironomus dorsalis, Chromosomes, Deoxyribonucleic acid, Diptera, Insect genetics, Quantitative analysis, Synthesis, Yolk nucleus. English summary.

8265-69
NON-RANDOM MATING IN TRIBOLIUM CASTANEUM.
P Sinnock
Genetics 61(2,PT 2,SUPPL):S55
1969 442.8 G28
Insect behavior, Insect genetics, Sex behavior, Tribolium castaneum.

8266-69
DEVELOPMENTAL TIME OF GEOGRAPHICAL POPULATIONS OF TRIBOLIUM CASTANEUM.
M Soliman M Hani R T Hardin
Genetics 61(2,PT 2,SUPPL):S56
1969 442.8 G28
Insect physiology, Population, Tribolium castaneum, Zoogeography.

8267-69
THE SS RNA GENES OF DROSOPHILA MELANOGASTER.
K D Tartof R P Perry
Genetics 61(2,PT 2,SUPPL):S58
1969 442.8 G28
Drosophila melanogaster, Electrophoresis, Insect genetics, Ribonucleic acid.

8268-69
NEW DATA ON NONDISJUNCTION OF THE X CHROMOSOMES IN FEMALES OF DROSOPHILA MELANOGASTER.
C Tokunaga
Genetics 61(2 PT 2,SUPPL):S58-S59
1969 442.8 G28
Chromosomes, Drosophila melanogaster, Insect genetics, Insect rearing.

8269-69
GENETIC CONTROL OF THE ISO-ACCEPTING FORMS OF TYROSYL-TRNA IN A SUPPRESSOR OF DROSOPHILA MELANOGASTER.
D R Twarozik E H Grell K B Jacobson
Genetics 61(2,PT 2,SUPPL):S59
1969 442.8 G28
Chromatography, Drosophila melanogaster, Enzymes, Insect biochemistry, Insect genetics, Ribonucleic acid.

8270-69
GENETIC AND PHYSIOLOGICAL EFFECTS OF ETHYLENIMINE IN HABROBRACON FEMALES.
L R Valcovic D S Grosch
Genetics 61(2,PT 2,SUPPL):S60
1969 442.8 G28
Chromosomes, Ethylenimine, Habrobracon, Insect genetics, Insect physiology, Mutagens.

8271-69
MALE DETERMINING FACTORS FOUND ON 3 AUTOSOMES IN THE HOUSE FLY, MUSCA DOMESTICA L..
D E Wagoner
Genetics 61(2,PT.2 SUPPL):S61
1969 442.8 G28
Chromosomes, Insect genetics, Musca domestica, Sex.

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8272-69
THE SUSCEPTIBILITY OF CULEX PIPIENS MOLESTUS FORSKAL IN ISRAEL TO SEVERAL INSECTICIDES IN 1958-1960 AND IN 1965.
A Barkai Z Saliternik P Rosen
Mosquito News 27(2):191-198 REF
Jun 1967 421 M85
Chemical control (insects), Culex, Diazinon, Dieldrin, DDT, Fenthion, Insecticide resistant insects, Lindane, Malathion.

Abstract: During 1958-1960, larval populations were tested for their susceptibility to DDT, dieldrin, lindane and malathion, whereas adult female populations were tested only for DDT resistance. The 1965 survey included additional tests of larval populations with diazinon and fenthion and of adult female populations with dieldrin and malathion.

8273-69
PRACTICAL IMPORTANCE OF INSECTICIDE RESISTANCE FOR MALARIA ERADICATION IN TROPICAL AFRICA. (FR)
J Coz J Hamon
Entomol Med Cahiers (1):27-37 MAP REF
Dec 1963 SB931.A1O3
Anopheles, Chemical control (insects), Chlorinated hydrocarbons, Dieldrin, DDT, Human diseases, Insect vectors, Insecticide resistant insects, Lindane, Malaria, Medical entomology. English and Spanish summaries.

8274-69
MOSQUITO CONTROL IN AND AROUND HOMES AND FARMSTEADS.
B H Kantack W L Berndt
S Dak State Univ Ext Ext Mimeogr Circ 444:2P
Apr 1969 275.29 SO85FS
Aedes vexans, Carbamates, Carbaryl, Chemical control (insects), Chlorinated hydrocarbons, Culex tarsalis, Culicidae, Cultural control (insects), Dichlorvos, Insect pests, Insect physiology, Insect repellents, Insect vectors, Insecticidal aerosols, Insecticides, Malathion, Methoxychlor, Organophosphorus compounds, Pyrethrum, Ultra-low-volume spraying.

8275-69
TECHNICAL PROBLEMS OF MALARIA ERADICATION IN AFRICA. (FR)
J Mouchet J Hamon
Entomol Med Cahiers (1):39-48 REF
Dec 1963 SB931.A1O3
Anopheles funestus, Anopheles gambiae, Chlorinated hydrocarbons, Disease transmission, DDT, Eradication, Human diseases, Insect vectors, Insecticide resistant insects, Malaria, Medical entomology. English and Spanish summaries.

8276-69
ENTOMOLOGICAL FACTORS IN PERSISTING TRANSMISSION OF MALARIA IN ERADICATION PROGRAMS. (FR)
J Mouchet
Entomol Med Cahiers (1):17-26 REF
Dec 1963 SB931.A1O3
Anopheles, Chemical control (insects), Chlorinated hydrocarbons, Dieldrin, Disease transmission, DDT, Eradication, Human diseases, Insect vectors, Insecticide resistant insects, Insecticides, Malaria, Medical entomology. English and Spanish summaries.

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8277-69
METHODS OF CONTROLLING BACTERIA, FUNGI, NEMATODES AND WEED PESTS WITH TETRAHALOHYDROXYBENZAMIDES. PATENT 3,459,534.
E Dorfman E D Weil
Us Patent Office Offic Gaz 865(1),178
05 Aug 1969 156.65 OF2
Benzamides, Chemical control (pests), Patents, Pesticides.

8278-69
A BLACK MILDEW, OF THE GENUS DIPOROTHECA, FOUND ON ROOTS OF NICOTIANA TABACUM IN CONNECTICUT.
G S Taylor
Plant Dis Rep 53(1):85-86
Jan 1969 1.9 P69P
Black mildew, Diporotheca rhizophila, Fungus diseases (plants), Heterodera tabacum, Mycelium, Plant nematodes, Roots, Solanaceae, Tobacco.

DISEASES

8279-69
INFLUENCE OF SOIL STERILIZATION MEASURES ON THE MYCORRHIZA OF FOREST PLANTS. (I.). (GE)
F Afscharpour E Retzlaff F H Meyer
Nachrichtenbl Deut Pflanzenschutzdienstes 19(1):4-6
Jan 1967 442.9 B832
Forests, Fumigants, Fungicides, Fungus diseases (plants), Mycorrhiza, Plant protection, Plants, Soil sterilization, Tree diseases.

8280-69
DISEASES OF TEA, COFFEE AND RUBBER DISCUSSED AT THE FIRST INTERNATIONAL CONGRESS OF PLANT PATHOLOGY.
V Agnihothrudu
Cur Sci 38(6):127-130
20 Mar 1969 475 SCI23
Chemical control (plant diseases), Coffee, Fungus diseases (plants), Rubber, Symposia, Tea.

8281-69
VIRUSES-AGENTS OF DISEASE.
Anonymous
Chem Cour 1:12-14
1969 421 C42
Crop yields, Dimethyl-S-(2-oxo-3-aza-butyl)-phosphorothioate, O,O-, Disulfoton, Ethylsulfinyl)ethyl) O,O-dimethyl phosphorothioate, S-(2-i, Systemic insecticides, Tobacco mosaic virus, Virus diseases (plants).

8282-69
PIRICULARIA ORYZAE, A PROBLEM COMMON TO RICE GROWING COUNTRIES.
Anonymous
Chem Cour 1:4-6
1969 421 C42
Blast, Chemical control (plant diseases), Fungicides, Fungus diseases (plants), Nitrogen, Organophosphorus compounds, Phenylmercuric acetate, Piricularia oryzae, Plant diseases, Rice.

HINOSAN, an organophosphate fungicide, provides effective control.

8283-69
ALTERNARIA SEED INFECTION OF WHEAT.
T P Bhowmik
Plant Dis Rep 53(1):77-80 REF
Jan 1969 1.9 P69P
Alternaria tenuis, Alternaria triticina, Black point, Fungus diseases (plants), Helminthosporium, Helminthosporium sorokinianum, Mycelium, Rainfall, Seedlings, Stemphylium, Wheat.

8284-69
NOTES ON FUNGI RESPONSIBLE FOR THE DECAY OF HICKORY NUTS.
P E Bostick
Mycologia 60(4):978-980 REF
Jul 1968 450 M99
Carya glabra, Decay, Fruit, Fungus diseases (plants), Mycology, Nuts, Penicillium.

8285-69
HYDROXAMATE CARBAMATES AS NEMATOCIDES. PATENT 3,459,866.
J B Buchanan
Us Patent Office Offic Gaz 865(1):232
05 Aug 1969 156.65 OF2
Carbamates, Chemical control (plant diseases), Methyl O-(methylcarbamyl)thiolacetohydroxamate, Nematocides, Patents.

8286-69
SAVE YOUR POTATO CROP FROM FUNGAL AND BACTERIAL DISEASES.
D S Chahal N Singh
Prog Farming 4(6):21-23
Jul 1968 S19.P8
Alternaria solani, Bacterial diseases (plants), Bacterial soft rot, Bactericides, Black scurf, Blackleg (potatoes), Bordeaux mixture, Brown rot, Chemical control (plant diseases), Copper oxychloride, Cultural control (plant diseases), Early blight, Er-

winia, Formaldehyde, Fungicides, Fungus diseases (plants), Late blight, Mercury chloride, Phytophthora infestans, Plant disease control, Plant diseases, Potatoes, Pseudomonas solanacearum, Rhizoctonia solani, Thiocarbamates, Tubers, Zineb.

8287-69
USE OF CACAO POD FOR RECOVERING PHYTOPHTHORA SPECIES PATHOGENIC TO HEVEA BRASILIENSIS.
K H Chee K M Foong
Plant Dis Rep 52(1):5
Jan 1968 1.9 P69P
Cacao, Fungus diseases (plants), Hevea brasiliensis, Necrosis, Phytophthora meadii, Phytophthora palmivora.

8288-69
CONTROL OF BACTERIAL SPOT OF PEACH IN NEW JERSEY.
R H Daines
Plant Dis Rep 53(1):81-83
Jan 1969 1.9 P69P
Antibiotics, Bacterial diseases (plants), Bacterial spot, Chemical control (plant diseases), Fungicides, Insecticides, Oxytetracycline, Peaches, Xanthomonas pruni.

8289-69
NEW SPECIES OF CERATOCYSTIS ASSOCIATED WITH BARK INJURIES ON DECIDUOUS FRUIT TREES.
J E DeVay R W Davidson W J Moller
Mycologia 60(3):635-641 REF
May 1968 450 M99
Bark diseases, Canker, Ceratocystis alba, Ceratocystis californica, Fruit, Fungus diseases (plants), Morphology, Mycology, Plant diseases, Trees.

8290-69
TOBACCO MOSAIC VIRUS IN DIVIDING MESOPHYLL CELLS OF NICOTIANA.
K Esau R H Gill
Virology 38(3):464-472 REF
Jul 1969 448.8 V81
Chromosomes, Cytology, Leaves, Mitosis, Mosaic, Parenchyma tissue, Tobacco, Tobacco mosaic virus, Virology, Virus diseases (plants).

8291-69
PLANT DISEASES AND THEIR CHEMICAL CONTROL.
E Evans
2-288
1968 SB601.E9
Chemical control (plant diseases), Fungicides, Pesticide application, Plant diseases, Plant physiology, Plant taxonomy, Seed treatment.

8292-69
AN ELECTRON MICROSCOPY STUDY OF THE PENETRATION OF TOBACCO MOSAIC VIRUS INTO LEAVES FOLLOWING EXPERIMENTAL INOCULATION.
F M Gerola M Bassi M A Favali E Betto
Virology 38(3):380-386 REF
Jul 1969 448.8 V81
Cowpeas, Electron microscopy, Immunization, Leaves, Mosaic, Tobacco mosaic virus, Virology, Virus diseases (plants).

8293-69
TOMATO VIRUS DISEASES IN CLOSED AND OPENED SOIL OF THE ESTONIAN SSR. (RUS)
M Goldin S Villemson
Akad Nauk Est Ssr Izv Ser Biol 16(2):107-114 REFS
1967 442.9 AK18
Surveys, Tobacco mosaic virus, Tomatoes, Virus diseases (plants). English and Estonian abstracts.

8294-69
OCCURRENCE OF CRYPTOSTROMA CORTICALE IN NORTHWESTERN UNITED STATES.
H Goree
Plant Dis Rep 53(1):87
Jan 1969 1.9 P69P
Acer pseudoplatanus, Ceratocystis coerulescens, Conidia, Cryptostroma corticale, Epidemiology, Fungus diseases (plants), Sooty bark.

8295-69
IDENTIFICATION OF VIRUSES ISOLATED FROM COWPEAS IN ALABAMA.
A N Harrison R T Gudauskas
Plant Dis Rep 52(1):34-36 REF
Jan 1968 1.9 P69P
Beans, Chlorosis, Cowpeas, Cucumbers, Epidemiology, Mosaic, Mottle, Virology, Virus diseases (plants), Yellow mosaic.

8296-69
NECK ROT IN ONIONS.
D Hodge
S Australia J Agr 72(5):157-160
Dec 1968 23 SO84
Botrytis allii, Chemical control (plant diseases), Copper sulfate, Fertilizers, Fungicides, Fungus diseases (plants), Maneb (zinc ion), Neck rot, Onions, Plant diseases, Thiocarbamates, Zinc propylenebis(dithiocarbamate).

8297-69
BACTERIAL TOP AND STALK ROT DISEASE OF CORN IN WISCONSIN.
P E Hoppe A Kelman
Plant Dis Rep 53(1):66-70 REF
Jan 1969 1.9 P69P
Bacterial diseases (plants), Corn, Erwinia carotovora, Erwinia chrysanthemi, Irrigation, Plant physiology, Rot, Stalk rot.

8298-69
A BOLL ROT OF COTTON CAUSED BY ERWINIA AROIDEAE.
R E Hunter
Plant Dis Rep 52(1):14-16 REF
Jan 1968 1.9 P69P
Achromobacteraceae, Bacillus, Bacterial discases (plants), Boll rot, Cotton, Erwinia aroideae, Pseudomonas, Xanthomonas malvacearum.

8299-69
DEGRADATION OF TURNIP YELLOW MOSAIC VIRUS BY FREEZING AND THAWING IN VITRO: A NEW METHOD FOR STUDIES ON THE INTERNAL ORGANIZATION OF THE VIRAL COMPONENTS AND FOR ISOLATING NATIVE RNA.
J M Kaper R A Siberg
Virology 38(3):407-413 REF
Jul 1969 448.8 V81
Degradation, Freezing, Mosaic, Proteins, Ribonucleic acid, Temperature, Turnips, Virology, Virus diseases (plants), Yellow mosaic virus.

8300-69
TELIOSPORE MORPHOLOGY OF SOME SMUT FUNGI. II. LIGHT MICROSCOPY.
A Khanna M M Payak
Mycologia 60(3):655-662 REF
May 1968 450 M99
Fungi, Microscopy, Morphology, Mycology, Neovossia brachypodii, Neovossia horrida, Neovossia indica, Smuts, Teliospores, Ustilaginales.

8301-69
THE INEFFECTIVENESS OF CYCLOHEXIMIDE AND PHYTOACTIN AS CHEMICAL CONTROLS OF THE BLISTER RUST DISEASE.
C D Leaphart E F Wicker
Plant Dis Rep 52(1):6-10 REF
Jan 1968 1.9 P69P
Antibiotics, Blister rust, Canker, Chemical control (plant diseases), Cronartium ribicola, Cycloheximide, Fungus diseases (plants), Parasitism, Phytoactin, Pinus monticola, Tuberculina maxima.

8302-69
ETHYLENE DIBROMIDE: A POTENT PESTICIDE WITH HIGH MOTAGENIC ACTIVITY.
H V Malling
Genetics 61(2,PT 2.SUPPL):S39
1969 442.8 G28
Ethylene dibromide, Mutagens, Neurospora crassa, Pesticides.

8303-69
POWDERY MILDEW OF HYDRANGEAS.
A H McCain R H Sciaroni
Pest Contr Oper News 27(10-11,OCT-NOV):17
1967 SB951.A1P4
Chemical control (nematodes), Chemical control (plant diseases), Erysiphe polygoni, Fungicides, Fungus diseases (plants), Hydrangea macrophylla, Nematodes, Plant injuries, Powdery mildew, Rosa, Spraying.

8304-69
BACTERIAL SPOT OF TOMATO IN UNITED ARAB REPUBLIC.
K Y Mickail F Bishay
Plant Dis Rep 53(1):85
Jan 1969 1.9 P69P
Bacterial diseases (plants), Bacterial spot, Epidemiology, Plant quarantine, Seed-borne plant diseases, Seeds, Tomatoes, Xanthomonas vesicatoria.

8305-69
THE EFFECT OF DIPHENAMID ON THE UPTAKE AND DISTRIBUTION OF MACRONUTRIENT ELEMENTS IN CABBAGE.
R B Nashed R D Ilnicki
Northeast Weed Contr Conf Proc 22:500
03 Jan 1968 79.9 N814
Cabbage, Diphenamid, Herbicides, Macronutrients, Roots.

8306-69
CONTROL OF VASCULAR TREE DISEASES WITH TRICHLOROPHENYL ACETIC ACIDS. PATENT 3,458,640.
J S Newcomer E D Weil E Dorfman
Us Patent Office Offic Gaz 864(5):1647
29 Jul 1969 156.65 OF2
Chemical control (plant diseases), Fenac, Patents, Pesticide application, Tree diseases.

8307-69
FLUORESCENT ANTIBODY STAINING OF TOBACCO MOSAIC VIRUS ANTIGEN IN TOBACCO MESOPHYLL PROTOPLASTS.
Y Otsuki I Takebe
Virology 38(3):497-499
Jul 1969 448.8 V81
Antibodies, Antigens, Cells, Fluorescence microscopy, Fluorescent antibody technic, Leaves, Mosaic, Parenchyma tissue, Staining, Tobacco mosaic virus, Virology, Virus diseases (plants).

8308-69
PATHOLOGICAL CHANGES IN THE TRUNK OF PRUNUS ARMENIACA L. AND THEIR RELATIONSHIP TO THE PREMATURE DEATH OF APRICOTS. I. INVESTIGATIONS IN THE AREA OF WOOD STRUCTURE. (GE)
J Paclt
Phytopathol Z 60(3):237-246 REF
Nov 1967 464.8 P562
Apricots, Basidiomycetes, Dieback, Fruit, Fungus diseases (plants), Hyphae, Polyporaceae, Tannins, Toxicity, Trametes, Tree diseases, White rot, Wood decay, Wood destroying fungi, Wood structure. English summary.

8309-69
IN SITU BREAKAGE OF TURNIP YELLOW MOSAIC VIRUS RNA AND IN SITU AGGREGATION OF THE FRAGMENTS. ANALYSIS OF SUCCESSIVE STAGES.
C W A Pley J Talens L Bosch M Mandel
Virology 38(3):371-379 REF
Jul 1969 448.8 V81
Hydrogen-ion concentration, Ribonucleic acid, Sedimentation, Turnips, Vegetables, Virology, Virus diseases (plants), Yellow mosaic, Yellow mosaic virus.

8310-69
AN INTERESTING MODE OF SPORE LIBERATION BY GEORGEFISCHERIA RIVEAE THIRUM. AND NARAS.

T Raghunath
Phytopathol Z 60(3):298-300
Nov 1967 464.8 P562
Convolvulaceae, Fungus diseases (plants), Georgefischeria riveae, Leaves, Rivea hypocrateriformis, Smuts, Spore dispersal, Ustilaginales. German summary.

8311-69
CONTRIBUTION TO THE ETIOLOGIC STUDY AND CONTROL OF BEET GERM ROTTING. (RUM)
C Raicu A Coiceu
Probl Agr 21(3):65-71
1969 21 R862
Beets, Fungicides, Fungus diseases (plants), Plant disease control, Pythium, Rot, Thiram. English, French and Russian abstracts.

On the basis of field and laboratory experiments, this paper presents some data concerning the microorganisms frequently isolated from infected beet germs, their role in the rotting process, the effect of some products used to control them and the influence of the respective products on the germinating ability of seeds after a short time. It has been found that among the fungus species infecting the beet germs, Pythium was the most important. The best results were obtained by the moist treatment of seeds with tiradin 75.

8312-69
EFFECT OF CRINKLE-SCURF OF CITRUS ON TREE GROWTH, PRODUCTIVITY, AND FRUIT QUALITY.
H J Reitz L C Knorr
Plant Dis Rep 52(1):31-33
Jan 1968 1.9 P69P
Chlorosis, Citrus, Citrus juices, Crinkle, Diagnosis, Oranges, Plant abnormalities, Plant genetics, Plant physiology, Productivity, Psorosis, Quality control, Scurf.

8313-69
PHOSPHO-ACID ESTERS AS FUNGITOXIC AGENTS. PATENT 3,459,857.
H Scheinpflug H F Jung G Schrader
Us Patent Office Offic Gaz 865(1):230
05 Aug 1969 156.65 OF2
Chemical control (plant diseases), Fungicides, Organophosphorus compounds, Patents, Rice.

8314-69
RESISTANCE OF STRAWBERRY VARIETIES TO LEAF SCORCH DISEASE.
D H Scott A D Draper J R McGrew I C Haut
Plant Dis Rep 53(1):16-18
Jan 1969 1.9 P69P
Crop varieties, Diplocarpon earliana, Fungus diseases (plants), Helotiales, Leaf scorch, Plant disease resistance, Strawberries.

8315-69
A NEW SYMPTOM OF GUMMY STEM BLIGHT (MYCOSPHAERELLA MELONIS) ON CUCUMBER FRUIT.
W R Sitterly
Plant Dis Rep 52(1):49-51
Jan 1968 1.9 P69P
Cucumbers, Diagnosis, Fungus diseases (plants), Gummy stem blight, Mycosphaerella melonis.

8316-69
STUDIES ON THE 5'-TERMINUS OF TURNIP YELLOW MOSAIC VIRUS RNA.
J Suzuki R Haselkorn
J Molec Biol 36(1):47-56 REF
28 Aug 1968 442.8 J8224
Bacteriophages, Chemical control (plant diseases), Escherichia coli, Hydrolysis, Kinases, Kinetics, Phosphates, Ribonucleic acid, Turnips, Virus diseases (plants), Yellow mosaic.

8317-69
EVIDENCE OF TRANSOVARIAL PASSAGE OF THE SOWTHISTLE YELLOW VEIN VIRUS IN THE APHID HYPEROMYZUS LACTUCAE.
E S Sylvester
Virology 38(3):440-446 REF
Jul 1969 448.8 V81
Aphididae, Hyperomyzus lactucae, Insect vectors, Larvae, Plant disease transmission, Sonchus, Virology, Virus diseases (plants), Viviparity, Yellow vein.

8318-69
SEMLIKI FOREST VIRUS TEMPERATURE-SENSITIVE MUTANTS. ISOLATION AND CHARACTERIZATION.
K B Tan J F Sambrook A J D Bellett
Virology 38(3):427-439 REF
Jul 1969 448.8 V81
Antigens, Arboviruses, Protein synthesis, Ribonucleic acid, Semliki Forest virus, Temperature, Virology, Virus diseases (animals), Virus mutation.

ARTHROPODS

8319-69
CONTROL OF PADDY STEM BORERS BY CULTURAL PRACTICES.
Baltimore, John Hopkins Press. 369-389 REF
1969 SB608.R5S9
Crop rotation, Cultural control (insects), Fertilizers, Noctuidae, Pyralidae, Rice, Transplanting.

8320-69
GRAIN APHIDS IN NEW BRUNSWICK. IV. EFFECTS OF MALATHION AND 2,4-D AMINE ON APHID POPULATIONS AND ON YIELDS OF OATS AND BARLEY.
J B Adams M E Drew
Can J Zool 47(3):423-426 REF
May 1969 470 C16D
Amines, Aphididae, Barley, Chemical control (insects), Crop yields, D, 2,4-, Herbicides, Insect pests, Insecticides, Macrosiphum avenae, Malathion, Mortality, Oats, Organophosphorus compounds, Phenoxy acid compounds, Reproduction, Rhopalosiphum padi.

8321-69
CORN BORER OUTLOOK.
Anonymous
Farm Chem 132(7):40
Jul 1969 57.8 AM3
Carbamates, Carbaryl, Chemical control (insects), Corn, Crop yields, Diazinon, Insect pests, Insect physiology, Insecticides, Organophosphorus compounds, Ostrinia nubilalis, Pyraustidae. Experts predict heavy outbreak.

8322-69
FIRE ON FIRE ANTS .
Anonymous
Aerial Appl 7(3):5,8
Apr 1969 333.8 AE8
Chemical control (insects), Chlorinated hydrocarbons, Formicidae, Insect pests, Insecticide application, Insecticides, Mirex, Ovipositors, Solenopsis saevissima richteri, Spraying, Venoms, Zoogeography.

8323-69
A HITHERTO UNRECORDED MIDGE GALL OF MYRSINE AUSTRALIS (A. RICH.) ALLAN.
B C Arnold
Pacific Sci 21(1):115-118
Jan 1967 475 P11
Cecidomyiidae, Plant galls, Plant injuries, Plant morphology.

8324-69
DOUBLE YOUR COTTON YIELD BY SPRAYING.
A S Atwal K Singh
Prog Farming 4(6):4-5
Jul 1968 S19.P8
Aleyrodidae, Aphididae, Chemical control (insects), Chlorinated hydrocarbons, Cicadellidae, Cotton, Crop yields, Dimethoate, DDT, Endrin, Ethylthio)ethyl O,O-dimethyl phosphorodithioate, S-(2-, Formothion, Formulations, Gelechiidae, Insect pests, Insecticide application, Insecticides, Malathion, Organophosphorus compounds, Spraying.

8325-69
THE PRESENCE IN THE VINEYARDS OF THE TESSIN OF A NEARCTIC CICADELLA, NEW FOR SWITZERLAND, SCAPHOIDEUS LITTORALIS BALL (HOM.JASSIDAE) A POSSIBLE CARRIER OF YELLOW FLAVESCENCE. (FR)
M Baggiolini V Canevascini R Caccia Y Tencalla G Sobrio
Schweiz Entomol Ges Mitt 40(3/4):270-275
15 Apr 1968 420 SW6
Cicadellidae, Empoasca flavescens, Golden flavescence, Grape vineyards, Grapes, Insect biology, Insect morphology, Insect taxonomy, Insect vectors, Scaphoideus littoralis, Virus diseases (plants), Zoogeography.

8326-69
NOTE ON THE EFFICIENCY OF PROSPALTELLA PERNICIOSI TOW. IN FRANCE. (FR)
C Benassy H Bianchi H Milaire
Entomophaga 12(3):241-255
1967 421 EN835
Aspidiotus perniciosus, Biological control (insects), Climate, Orchards, Population, Prospaltella perniciosi. English abstract.

8327-69
NEW PERSPECTIVES IN THE CONTROL OF AONIDIELLA AURANTII OF MOROCCO (HOM., DIASPIDIDAE). (FR)
C Benassy G Euverte
Entomophaga 12(5):449-459 MAP
1967 421 EN835
Aphytis, Biological control (insects), Citrus, Diaspididae, Insect rearing, Zoogeography. English abstract.

8328-69
FOREST ENTOMOLOGY.
D Bevan
Great Brit Forest Comm Rep Forest Res 112-115
1968 99.9 G795RE
Aldrin, Benzene hexachloride, Chlorinated hydrocarbons, DDT, Forest insects, Insect control, Insecticides, Malathion, Organophosphorus compounds.

8329-69
CHEMICALS THAT TAKE CARE OF THE MANGO HOPPER.
L J Bhatia
Indian Farming 16(10):16
Jan 1967 22 IN283
Carbaryl, Chemical control (insects), Cicadellidae, DDT, Malathion, Mangoes.

Control of mango leafhoppers in India with DDT, carbaryl and malathion is discussed.

8330-69
AVIAN AND MAMMALIAN PREDATORS OF FOREST INSECTS.
C H Buckner
Entomophaga 12(5):491-501 REF
1967 421 EN835
Birds, Forest insects, Mammals, Natural control (insects).

8331-69
CONTROL OF THE BOLL WEEVIL BY MECHANICALLY DESTROYING FALLEN INFESTED COTTON SQUARES.
E C Burt E P Lloyd D B Smith
J Econ Entomol 62(4):862-865
15 Aug 1969 421 J822
Anthonomus grandis, Azinphosmethyl, Chemical control (insects), Cotton, Cultural control (insects), Dairy equipment, Organophosphorus compounds, Spraying. Flail-type machine can be used until plants heavily fruited.

8332-69
RESTRICTED LOCAL SPREAD OF CURLY TOP IN TOMATOES.
R L Clark
Plant Dis Rep 52(1):17-18
Jan 1968 1.9 P69P

8333-69

Circulifer tenellus, Curly top, Epidemiology, Insect vectors, Ruga verrucosans, Tomatoes, Virus diseases (plants).

8333-69

OBSERVATIONS ON STROPHOSOMUS MELANOGRAMMUS (FORST.), POLYDROSUS MARGINATUS STEPH. AND OTIORRHYNCHUS ARMADILLO (ROSSI) (COLEOPTERA CURCULIONIDAE), PESTS OF PSEUDOTSUGA DOUGLASII CARR. IN TUSCANY. (IT)

M V Covassi

Redia (SER 2)50:89-119 REF

1967 421 R241

Curculionidae, Forest insects, Insect pests, Otiorhynchus, Polydrusus, Pseudotsuga taxifolia, Strophosomus melanogrammus. English summary.

8334-69

NEODIPRION TAEDAE LINEARIS: A SAWFLY PEST OF LOBLOLLY AND SHORTLEAF PINES.

J F Coyne

U S Forest Serv Forest Pest Leafl 34:4P

May 1968 A423.9 F764

Biological control (insects), Chemical control (insects), Diazinon, Dimethoate, DDT, Insect pests, Neodiprion, Parasitism, Pinus echinata, Plant injuries, Temperature, Viruses.

8335-69

A NUCLEOPOLYHEDROSIS VIRUS IN POPULATIONS OF THE DOUGLAS-FIR TUSSOCK MOTH, HEMEROCAMPA PSEUDOTSUGATA, IN CALIFORNIA.

D L Dahlsten G M Thomas

J Invertebrate Pathol 13(2):264-271 MAP REF

Mar 1969 421 J826

Abies concolor, Hemerocampa pseudotsugata, Mortality, Nuclear polyhedrosis virus, Population, Surveys.

8336-69

CHEMICAL CONTROL OF A SPECIES OF THE FALSE CHINCH-BUG GROUP ON WHEAT AND SUGAR BEETS.

N E Daniels

Tex Agr Exp Sta Progr Rep 2667:2P

Apr 1969 100 T31P (2)

Chemical control (insects), Insect pests, Insecticides, Lygaeidae, Malathion, Nysius ericae, Organophosphorus compounds, Parathion, Sugar beets, Wheat.

8337-69

GREENBUG CONTROL IN GRAIN SORGHUM.

N E Daniels

Tex Agr Exp Sta Progr Rep 2669:2P

Apr 1969 100 T31P (2)

Chemical control (insects), Grain, Insect pests, Insecticides, Methyl parathion, Organophosphorus compounds, Schizaphis graminum, Sorghum.

8338-69

BIOLOGICAL STUDIES ON AMBLYSEIUS ALEYRODIS A PREDATOR OF THE COTTON WHITEFLY (ACARINA, PHYTOSEIIDAE).

E A Elbadry

Entomophaga 13(4):323-329 REF

1968 421 EN835

Bemisia tabaci, Biological control (insects), Cotton, Insect biology, Insect nutrition, Phytoseiidae, Predaceous insects.

8339-69

HOW TO DISTINGUISH ATTACKS BY THE BLACK TURPENTINE BEETLE AND DIORYCTRIA AMATELLA ON SOUTHERN PINES.

C W Fatzinger G L DeBarr

U S Forest Serv Res Note Se 101:4P

Jan 1969 A99.9 F7623UN

Bark, Dendroctonus terebrans, Dioryctria amatella, Insect identification, Insect pests, Larvae, Phycitidae, Pinus, Pinus elliottii, Pitch, Scolytidae.

8340-69

BIBLIOGRAPHY ON BIOLOGICAL CONTROL. XII. (GE)

J M Franz

Entomophaga 13(1):3-87 REF

1968 421 EN835

Bibliography, Biological control (insects).

8341-69

BIBLIOGRAPHY ON BIOLOGICAL CONTROL. XI. (GE)

J M Franz

Entomophaga 12(1):5-80 REF

1967 421 EN835

Bibliography, Biological control (insects), Insect control.

8342-69

NATURAL ENEMIES OF LASPEYRESIA POMONELLA L. (LEPIDOPTERA, TORTRICIDAE) AND THE EFFECT OF CHEMICAL TREATMENT ON THEIR USEFUL ACTIVITY.

N K Gaprindashvili T N Novitskaya

Entomol Rev 46(1,JAN-MAR):39-42 REF

Mar 1967 421 R322AE

Chemical control (insects), DDT, Laspeyresia pomonella, Natural control (insects).

8343-69

LYCOPERSICON AN SOLANUM SPP. RESISTANT TO THE CARMINE AND THE TWO-SPOTTED SPIDER MITE.

A G Gentile R E Webb A K Stoner

J Econ Entomol 62(4):834-836

15 Aug 1969 421 J822

Lycopersicon, Mites, Plant pest resistance, Solanum, Tetranychus telarius, Tetranychus urticae.

8344-69

THE NATURAL ENEMIES OF THE CHAFF SCALE, PARLATORIA PERGANDII COMSTOCK, IN ISRAEL.

U Gerson

Entomophaga 12(2):97-109 REF

1967 421 EN835

Acarina, Aphelinidae, Aphytis, Cecidomyiidae, Citrus, Coccinellidae, Natural control (insects), Parlatoria pergandii, Population, Predaceous insects, Surveys.

8345-69

CABBAGE LOOPER CONTROL IN FLORIDA - A COOPERATIVE PROGRAM.

G L Greene W G Genung R B Workman E G Kelsheimer

J Econ Entomol 62(4):798-800 REF

15 Aug 1969 421 J822

Cabbage, Carbamates, Chemical control (insects), Chlorinated hydrocarbons, DDT, Feltia subterranea, Organophosphorus compounds, Plutella maculipennis, Spraying, Trichoplusia ni.

8346-69

RESIDUES OF DIAZINON ON FIELD CORN TREATED WITH GRANULAR, CAPSULAR, AND ULV FORMULATIONS FOR CONTROL OF THE EUROPEAN CORN BORER.

J A Harding C Corley M Beroza W G Lovely

J Econ Entomol 62(4):832-833

15 Aug 1969 421 J822

Chemical control (insects), Diazinon, Formulations, Insecticide application, Organophosphorus compounds, Ostrinia nubilalis.

8347-69

HOW TO CONTROL INSECTS ON FIELD TOBACCO.

W C Harding F P Harrison

Md Univ Ext Fact Sheet 123:4P

Mar 1969 275.29 M36FA

Carbamates, Chemical control (insects), Chlorinated hydrocarbons, Elateridae, Epitrix hirtipennis, Formulations, Insect identification, Insect pests, Insecticide application, Insecticides, Myzus persicae, Noctuidae, Organophosphorus compounds, Sphingidae, Spraying, Tobacco, Tortricidae.

8348-69

EXPERIMENTS ON THE INSECTICIDAL CONTROL OF OXYCANUS FUSCOMACULATUS WALKER (LEPIDOPTERA: HEPIALIDAE).

R J Hardy

Tasmanian J Agr 39(2):135-137

May 1968 23 T182T

Chemical control (insects), Chlorinated hydrocarbons, DDT, Ethyl O-2,4,5-trichlorophenyl ethylphosphonothioate, O-, Fenthion, Insecticides, Organophosphorus compounds, Trichlorfon.

Oxycanus fuscomaculatus was most successfully and safely controlled with 21 oz. agritox and 18 oz. fenitrothion per acre.

8349-69

RECOGNITION OF A GREENBUG BIOTYPE INJURIOUS TO SORGHUM.

T L Harvey H L Hackerott

J Econ Entomol 62(4):776-779 REF

15 Aug 1969 421 J822

Barley, Grasses, Insect pests, Oats, Plant pest resistance, Rye, Schizaphis graminum, Sorghum, Sorghum vulgare sudanense, Wheat.

8350-69

DISTRIBUTION OF INSECTICIDES SPRAYED BY AIRPLANE ON AN IRRIGATED CORN PLOT. IN: ORGANIC PESTICIDES IN THE ENVIRONMENT; SYMPOSIUM...AMERICAN CHEMICAL SOCIETY, ATLANTIC CITY, N.J., SEPT. 13-15, 1965. ROBERT J. GOULD, ED.

E Hindin D S May G H Dunstan

Advances Chem Ser 60:132-145, REF.

1966 381 AD93

Aerial spraying, Air pollution, Corn, Diazinon, DDT, Ethion, Insecticide residues, Irrigation, Soil contamination, Water pollution.

8351-69

ON THE RATING OF PLANTS AS SOURCES OF POLYPHAGOUS SPECIES OF PLANT LICE (HOMOPTERA: APHIDIDAE). (GE)

I Iglisch

Z Angew Zool 55(4):489-492

1968 449.8 Z36

Aphididae, Insect behavior, Insect nutrition, Plants.

8352-69

THE MAJOR INSECT PESTS OF THE RICE PLANT - PROCEEDINGS OF A SYMPOSIUM OF INTERNATIONAL RICE RESEARCH INSTITUTE, SEPTEMBER, 1964.

Baltimore, John Hopkins Press. 729P REF

1967 SB608.R5S9

Insect pests, Rice, Symposia.

8353-69

ASSESSMENT OF RICE LOSS CAUSED BY THE RICE STEM BORER.

H Ishikura

Baltimore, John Hopkins Press. 251-264 REF

1967 SB608.R5S9

Chilo suppressalis, Crop estimates, Crop losses, Larvae, Plant nematodes, Rice, Tryporyza incertulas.

8354-69

TECHNIQUES FOR ASSESSING CROP LOSSES CAUSED BY RICE STEM BORERS IN TROPICAL AREAS.

P Israel T P Abraham

Baltimore, John Hopkins Press. 265-275 REF

1967 SB608.R5S9

Crop estimates, Crop losses, Pyralidae, Rice.

8355-69

VARIETAL RESISTANCE TO RICE STEM BORERS IN INDIA.

P Israel

Baltimore, John Hopkins Press. 391-403 REF

1967 SB608.R5S9

Insect behavior, Noctuidae, Plant breeding, Plant pest resistance, Plant propagation, Pyralidae, Rice.

8356-69
DEVELOPMENTS IN INSECTICIDE CONTROL OF THE RICE STEM BORER IN JAPAN.
A Kawada
Baltimore, John Hopkins Press. 325-334 REF
1967 SB608.R5S9
Benzene hexachloride, Chemical control (insects), Chlorinated hydrocarbons, DDT, Insecticides, Organophosphorus compounds, Parathion, Pyralidae, Rice.

8357-69
EVALUATION OF FOREST INSECT INFESTATIONS.
F B Knight
Annu Rev Entomol 12:207-228 REF
1967 421 AN72
Bibliography, Evaluation, Forest insects, Insect biology, Insect outbreaks, Population, Statistical analysis.

8358-69
THE APPLICATION OF A POLYHEDRAL NUCLEAR VIRUS FOR THE CONTROL OF LYMANTRIA DISPAR L. LARVAE. (IT)
A Magnoler
Entomophaga 12(2):199-207 REF
1967 421 EN835
Biological control (insects), Nuclear polyhedrosis virus, Porthetria dispar, Quercus. English abstract

8359-69
ACTIVITY OF THE WORKING GROUPS: WORKING GROUP ON SAN JOSE SCALE . (FR)
G Mathys
Entomophaga 12(1):3-4
1967 421 EN835
Aspidiotus perniciosus, Biological control (insects), Conferences, Prospaltella perniciosi, Reports.

8360-69
INFORMATION GATHERED IN THE COURSE OF NINE YEARS OF WORK WITH PROSPALTELLA PERNICIOSI TOW., PARASITE OF THE SAN JOSE SCALE (QUADRASPIDIOTUS PERNICIOSUS COMST.). (FR)
G Mathys E Guignard
Entomophaga 12(3):212-222
1967 421 EN835
Aspidiotus perniciosus, Biological control (insects), Climate, Population, Prospaltella perniciosi. English abstract.

8361-69
SOME ASPECTS OF BIOLOGICAL CONTROL OF THE SAN JOSE SCALE (QUADRASPIDIOTUS PERNICIOSUS COMST.) WITH THE HELP OF THE APHELINID PROSPALTELLA PERNICIOSI TOW. (FR)
G Mathys E Guignard
Entomophaga 12(3):223-234 MAP REF
1967 421 EN835
Aspidiotus perniciosus, Biological control (insects), Humidity, Insect biology, Insect control, Insect ecology, Prospaltella perniciosi. English abstract.

8362-69
VARIETAL RESISTANCE TO RICE STEM BORERS IN JAPAN.
K Munakata D Okamoto
Baltimore, John Hopkins Press. 419-430 REF
1967 SB608.R5S9
Attractants, Carbonyl compounds, Chilo suppressalis, Plant pest resistance, Rice.

8363-69
RICE LEAFHOPPERS.
S Nasu
Baltimore, John Hopkins Press. 493-523 REF
1967 SB608.R5S9
Chemical control (insects), Chlorinated hydrocarbons, Cicadellidae, DDT, Insect morphology, Insect taxonomy, Malathion, Organophosphorus compounds, Parathion, Rice, Seasonal variation, Virus diseases (plants).

8364-69
THE POSSIBLE ROLE OF BIOTIC FACTORS IN AN INTEGRATED PROGRAM FOR RICE STEM BORER CONTROL.
J L Nickel
Baltimore, John Hopkins Press. 443-453 REF
1967 SB608.R5S9
Biological control (insects), Cultural control (insects), Predaceous insects, Pyralidae, Rice, Trichogramma.

8365-69
FIFTY YEARS OF RESEARCH ON THE PINK BOLLWORM IN THE UNITED STATES.
L W Noble
U S D A Agr Handb 357:62P REF
Mar 1969 1 AG84AH
Azinphosmethyl, Biological control (insects), Carbamates, Carbaryl, Chemical control (insects), Chlorinated hydrocarbons, Cotton, Cotton ginning, Cultural control (insects), DDT, Formulations, Insect biology, Insect pests, Insect rearing, Insect traps, Insecticides, Organophosphorus compounds, Parasitic insects, Pectinophora gossypiella, Plant insect resistance, Predaceous insects, Research, Sterilization.

8366-69
RECENT DEVELOPMENTS IN AND FUTURE PROSPECTS FOR THE CHEMICAL CONTROL OF THE RICE STEM BORER AT IRRI.
M D Pathak
Baltimore, John Hopkins Press. 335-349
1967 SB608.R5S9
Chemical control (insects), Chilo suppressalis, Chlorinated hydrocarbons, Host specificity, Insect eggs, Larvae, Organophosphorus compounds, Rice.

8367-69
VARIETAL RESISTANCE TO RICE STEM BORERS AT IRRI.
M D Pathak
Baltimore, John Hopkins Press. 405-418
1967 SB608.R5S9
Insect control, Noctuidae, Plant pest resistance, Pyralidae, Rice.

8368-69
ECOLOGY OF COMMON INSECT PESTS OF RICE.
M D Pathak
Annu Rev Entomol 13:257-294 REF
1968 421 AN72
Chrysomelidae, Cicadellidae, Crop losses, Cultural control (insects), Delphacidae, Insect biology, Insect ecology, Leptocorisa varicornis, Lissorhoptrus oryzophilus, Noctuidae, Population, Pyralidae, Rice.

8369-69
INSECTICIDE TREATMENT OF SEED, AS A CONTROL METHOD OF THE MAIZE LEAF WEEVIL (TANYMECUS DILATICOLLIS GYLL.). (RUM)
F Paulian
Probl Agr 21(1):30-36 REF
1969 21 R862
Chemical control (insects), Chlorinated hydrocarbons, Corn, Curculionidae, Diazinon, Dieldrin, Dusting, Heptachlor, Insecticides, Lindane, Organophosphorus compounds, Seed treatment. English, French and Russian abstracts

8370-69
RECENT DEVELOPMENTS IN AND FUTURE PROSPECTS FOR THE CHEMICAL CONTROL OF THE RICE STEM BORER IN INDIA.
Y S Rao P Israel
Baltimore, John Hopkins Press. 317-324 REF
1967 SB608.R5S9
Benzene hexachloride, Chemical control (insects), Chlorinated hydrocarbons, DDT, Insect outbreak forecasting, Larvae, Pyralidae, Rice.

8371-69
THE RICE GALL MIDGE PACHYDIPLOSIS ORYZAE (WOOD-MASON).
D B Reddy
Baltimore, John Hopkins Press. 457-491 REF
1967 SB608.R5S9
Biological control (insects), Chemical control (insects), Chlorinated hydrocarbons, Cultural control (insects), Insect ecology, Insect physiology, Insect taxonomy, Light traps, Pachydiplosis oryzae, Rice.

8372-69
SOME RECOMMENDATIONS FOR THE CONTROL OF PERFORATORS OF SEEDS OF ANONACEAE (BEPHRATA SP. ORDER HYMENOPTERA). (SP)
J A Reyes Q
Agr Trop 23(8):530-531
Aug 1967 26 AG8
Chemical control (insects), DDT, Eurytomidae, Insect control, Malathion, Seeds, Trichlorfon.

8373-69
APPLE CHALCID, TORYMUS VARIANS (WLK.), (HYMENOPTERA: TORYMIDAE), IN QUEBEC. (FR)
I Rivard
Phytoprotection 48(2):68-73 REF
Jun 1967 464.8 P566
Apples, Carbaryl, Chalcicidae, Chemical control (insects), DDT, Insect eggs, Insect pests, Malathion, Seedlings, Torymus varians. English summary.

8374-69
TOPICAL, FUMIGATION, AND RESIDUAL TOXICITY OF INSECTICIDES TO RICE STEM BORERS.
T Saito
Baltimore, John Hopkins Press. 279-290 REF
1967 SB608.R5S9
Carbamates, Chilo suppressalis, Chlorinated hydrocarbons, Fumigation, Insecticides, Larvae, Organophosphorus compounds, Residues, Rice.

8375-69
CAN THE DEVELOPMENTAL TRENDS OF BIOLOGICAL PEST CONTROL BE DEMONSTRATED WITH A BIBLIOGRAPHY . (GE)
H R Simon
Entomophaga 12(1):81-84
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Bibliography, Biological control (insects), Insect control. English abstract.

8376-69
OVICIDAL EFFICIENCY OF PARATHION AND DIAZION FOR QUARANTINE TREATMENT OF THE WESTERN TENT CATERPILLAR.
K G Swenson F L Gambrell H Breitfeld
J Econ Entomol 62(4):875-879
15 Aug 1969 421 J822
Diazinon, Dimethoate, Insect eggs, Malacosoma, Malacosoma pluviale, Malathion, Mineral oil, Organophosphorus compounds, Ovicides, Parathion, Plant quarantine.

8377-69
INVESTIGATIONS ON THE BIOLOGY AND CONTROL OF MELOLONTHA MELOLONTHA IN HAZELNUT PLANTATIONS. (TU)
I Ural
Bitki Koruma Bulteni 8(1):3-38
Mar 1968 464.8 B542
Aldrin, Chemical control (insects), DDT, Filberts, Heptachlor, Insect biology, Insect nutrition, Insect pests, Lindane, Melolontha melolontha, Plantations, Sex ratios. English summary.

8378-69
RELEASES OF UNSEXED GAMMA-IRRADIATED CODLING MOTHS FOR POPULATION SUPPRESSION.
L D White R B Hutt B A Butt
J Econ Entomol 62(4):795-798 REF
15 Aug 1969 421 J822
Apples, Azinphosmethyl, Cobalt isotopes, Gamma rays, Insect traps, Laspeyresia pomonella, Organophosphorus compounds, Parathion, Pears, Plant pest control, Sterility.

8379-69
THE POSSIBLE CONTROL OF RICE STEM BORERS BY THE USE ON NATURAL ENEMIES.
K Yasumatsu
Baltimore, John Hopkins Press. 431-442 REF
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Anthocoridae, Biological control (insects), Braconidae, Chlorinated hydrocarbons, Ichneumonidae, Insect rearing, Microorganisms, Noctuidae, Parasitic insects, Pyralidae, Rice, Scelionidae.

8380-69
IMPACT OF PARASITES, PREDATORS, AND DISEASES ON RICE PESTS.
K Yasumatsu T Torii
Annu Rev Entomol 13:295-324 REF
1968 421 AN72
Araneida, Insect biology, Insecticides, Natural control (insects), Predaceous insects, Rice, Scelionidae, Surveys, Trichogramma.

NEMATODES

8381-69
FIRST OBSERVATIONS ON THE RESISTANCE OF A HYBRID POTATO VARIETY TO SOME ITALIAN POPULATIONS OF HETERODERA ROSTOCHIENSIS WOLL. (IT)
L Ambrogioni
Redia (SER 2)50:75-88
1967 421 R241
Heterodera rostochiensis, Hybrids, Nematode population, Plant nematode resistance, Plant nematodes, Potatoes, Solanum andigenum. English summary.

8382-69
CONTRIBUTION TO THE MIGRATORY BEHAVIOR OF XIPHINEMA DIVERSICAUDUM (MIKOLETZKY) THORNE, X. COXI TARJAN AND LONGIDORUS MACROSOMA HOOPER, AS WELL AS THE DIFFUSION OF RHUBARB MOSAIC VIRUS IN THE FIELD. (GE)
R Fritzche
Biol Zentralbl 87(4):481-488, REF
Jul 1968 442.8 B523
Humus, Longidorus macrosoma, Mosaic, Plant disease transmission, Plant nematodes, Rhubarb, Sandy soils, Virus diseases (plants), Xiphinema coxi, Xiphinema diversicaudatum, Zoogeography. English and German summaries.

8383-69
EFFECT OF ORGANIC AND INORGANIC NITROGEN ON NEMATODE POPULATIONS ON TURF.
C M Heald G W Burton
Plant Dis Rep 52(1):46-48
Jan 1968 1.9 P69P
Ammonium nitrate, Belonolaimus longicaudatus, Chemical control (nematodes), Cynodon dactylon, Grasses, Greenhouse culture, Hypsoperine graminis, Nitrogen, Organic compounds, Plant nematodes, Turf.

8384-69
MULTIPLE APPLICATIONS OF 1,2-DIBROMO-3-CHLOROPROPANE FOR CONTROL OF NEMATODES IN ESTABLISHED ROSE PLANTINGS.
D E Johnson B Lear S T Miyagawa R H Sciaroni
Plant Dis Rep 53(1):34-37
Jan 1969 1.9 P69P
Chemical control (nematodes), Chlorinated hydrocarbons, Dibromo-3-chloropropane, 1,2-, Greenhouse culture, Meloidogyne hapla, Nematocides, Pesticide application, Plant nematodes, Rosa, Xiphinema americanum.

8385-69
NEW DATA ON THE DISTRIBUTION AND BIOLOGY OF THE COUCH GRASS NEMATODE (PARANGUINA AGROPYRI KIRJANOVA, 1955 (NEMATODA: TYLENCHIDA). (ES)
E Krall H Krall
Akad Nauk Est Ssr Izv Ser Biol 16(4):370-376 MAP
1967 442.9 AK18
Biology, Plant nematodes, Tylenchidae, Zoogeography. English and Russian abstracts.

8386-69
PATHOGENICITY OF HEMICRICONEMOIDES SPECIES TO COFFEE.
A C Kumar G I D'Souza
Plant Dis Rep 53(1):15-16
Jan 1969 1.9 P69P
Coffee, Helicotylenchus, Hemicriconemoides, Parasitism, Plant nematodes, Plant physiology, Tylenchorhynchus, Xiphinema.

8387-69
OXALIS ACETOSELLA, A NEW HOST OF THE COFFEE ROOT-LESION NEMATODE IN SOUTH INDIA.
A C Kumar H V Shamanna G I D'Souza
Plant Dis Rep 53(1):15
Jan 1969 1.9 P69P
Coffee, Oxalis acetosella, Parasitism, Plant nematodes, Plant pest control, Pratylenchus coffeae, Weeds.

8388-69
CONTRIBUTIONS TO THE KNOWLEDGE OF THE ITALIAN NEMATODE FAUNA. I. GENUS MELOIDGYNE GOELDI, 1887. (IT)
A M Palmisano
Redia (SER 2)50:381-397 REF
1967 421 R241
Meloidogyne, Meloidogyne arenaria, Meloidogyne hapla, Meloidogyne incognita, Meloidogyne javanica, Plant hosts, Plant nematodes, Taxonomy. English summary.

8389-69
NEMATODES ASSOCIATED WITH SOYBEANS IN ALABAMA, FLORIDA, AND GEORGIA.
R V Rebois E J Cairns
Plant Dis Rep 52(1):40-44 MAP
Jan 1968 1.9 P69P
Parasitism, Plant nematodes, Scutellonema brachyurum, Soil series, Soybeans, Tables (data), Zoogeography.

8390-69
PLANT-PARASITIC NEMATODES IN MARGINAL PINUS PONDEROSA STANDS IN CENTRAL NEW MEXICO.
J W Riffle
Plant Dis Rep 52(1):52-55
Jan 1968 1.9 P69P
Aphelenchoides, Helicotylenchus, Juniperus, Parasitism, Pinus, Pinus ponderosa, Plant nematodes, Tylenchus exiguus, Xiphinema americanum, Zoogeography.

8391-69
HOST-PARASITE RELATIONSHIPS OF VARIOUS PLANTS AND THE HOP CYST NEMATODE, HETERODERA HUMULI.
A K Sen H J Jensen
Plant Dis Rep 53(1):37-40 REF
Jan 1969 1.9 P69P
Cruciferae, Cucurbitaceae, Heterodera humuli, Leguminosae, Moraceae, Plant nematode resistance, Plant nematodes, Vegetables.

WEEDS

8392-69
EFFECT OF PARAQUAT IN THE ESTABLISHMENT OF ALFALFA.
A A Akhavein D L Linscott
Northeast Weed Contr Conf Proc 22:305
03 Jan 1968 79.9 N814
Alfalfa, Chemical control (weeds), Crop yields, Paraquat.

8393-69
HERBICIDAL COMPOSITION AND METHOD EMPLOYING THIOALKYLTHIOBENZOTHIAZOLES. PATENT 3,455,676.
K N Ayad
864(3):904
15 Jul 1969
Benzothiazole compounds, Chemical control (weeds), Herbicides, Patents.

8394-69
CHEMICAL CLEARING OF TRANSMISSION LINE RIGHT OF WAY IN QUEBEC.
J Baribeau
Northeast Weed Contr Conf Proc 22:334-339
03 Jan 1968 79.9 N814
Bromacil, Chemical control (weeds), Spraying equipment.

8395-69
SOME ECOLOGICAL BENEFITS OF WOODY PLANT CONTROL WITH HERBICIDES.
K C Barrons
Science 165(3892):465-468 REF
01 Aug 1969 470 SCI2
Agricultural policies, D, 2,4-, Economics, Herbicides, Pasture management, Shrubs, Silvex, T, 2,4,5-, Weed control.

8396-69
SOME ECOLOGICAL BENEFITS OF WOODY PLANT CONTROL WITH HERBICIDES.
K C Barrons
Science 165(3892):465-468
01 Aug 1969 470 SCI2
Aerial spraying, D, 2,4-, Defoliants, Forests, Herbicides, Pastures, Pesticide application, Picloram, Silvex, T, 2,4,5-, Toxicology.

8397-69
A THREE YEAR SUMMARY OF WEED CONTROL FOR ESTABLISHMENT OF LEGUME SEEDINGS.
G H Bayer
Northeast Weed Contr Conf Proc 22:306-312
03 Jan 1968 79.9 N814
Alfalfa, Birdsfoot trefoil, Chemical control (weeds), Oats, Phleum, Plant injuries.

8398-69
THE CONTROL OF WILD RADISH IN KATAHDIN POTATOES (1967).
R S Bell S Kenyon W R Hillebrecht
Northeast Weed Contr Conf Proc 22:439-442
03 Jan 1968 79.9 N814
Chemical control (weeds), Potatoes, Raphanus raphanistrum.

8399-69
COMPLEXES OF PHOSPHORUS PENTAFLUORIDE OXIMES AS HERBICIDES. PATENT 3,455,674.
M E Brokke G E Lukes J Hazzard D R Arneklov
Us Patent Office Offic Gaz 864(3):903
15 Jul 1969 156.65 OF2
Chemical control (weeds), Herbicides, Organophosphorus compounds, Oximes, Patents.

8400-69
CHEMICAL CONTROL OF VEGETATION UNDER HIGHWAY GUARDRAILS (1967).
A J Clapham S Kenyon R S Bell
Northeast Weed Contr Conf Proc 22:342-345
03 Jan 1968 79.9 N814
Chemical control (weeds), Herbicides, Roads.

8401-69
HERBICIDE EVALUATION IN SOYBEANS AT GEORGETOWN, DELAWARE, 1967.
R H Cole E L Wisk F J Webb
Northeast Weed Contr Conf Proc 22:473-480
03 Jan 1968 79.9 N814
Chemical control (weeds), Herbicides, Plant injurics, Soybeans, Surface-active agents.

8402-69
CONTROL OF YELLOW ROCKET (BARBAREA VULGARIS) AND OTHER BROADLEAF WEEDS ASSOCIATED WITH ESTABLISHED ALFALFA.
W L Currey R A Peters
Northeast Weed Contr Conf Proc 22:455-458
03 Jan 1968 79.9 N814
Alfalfa, Barbarea vulgaris, Chemical control (weeds), Herbicides, Lychnis alba, Plant injuries.

8403-69
PRE-HARVEST USE OF CHEMICALS IN POTATO PRODUCTION.
S L Dallyn D H Fricke
Northeast Weed Contr Conf Proc 22:443-447
03 Jan 1968 79.9 N814
Chemical control (weeds), Climbing plants, Crop yields, Herbicides, Potatoes, Storage.

8404-69
CONTROL AND ELIMINATION OF NOXIOUS WEEDS.
L Derscheid R Parker
S Dak State Univ Ext Ext Mimeogr Circ 448:5P
May 1969 275.29 SO85FS
Amitrole, Atrazine, Centaurea repens, Chemical control (weeds), Chlorinated hydrocarbons, Cirsium arvense, Convolvulus arvensis, D, 2,4-, Dalapon, Euphorbia esula, Formulations, Herbicides, Phenoxy acid compounds, Sonchus arvensis, Spraying, T, 2,4,5-, Tillage, Weed control, Weeds.

8405-69
BISPYRIDINIUM COMPOUNDS AS HERBICIDES. PATENT 3,458,305.
W C Doyle
Us Patent Office Offic Gaz 864(5):1589
29 Jul 1969 156.65 OF2
Chemical control (weeds), Herbicides, Paraquat, Patents, Pyridinium compounds.

8406-69
LICORICE-ROOT - DICHLOBENIL MULCH COMBINATION FOR CONTROL OF WEEDS IN BOXWOOD PLANTINGS.
C W Dunham T A Fretz
Northeast Weed Contr Conf Proc 22:255-258
03 Jan 1968 79.9 N814
Buxus sempervirens, Chemical control (weeds), Dichlobenil, Mulches.

8407-69
PERFORMANCE OF PREEMERGENCE HERBICIDES IN 1967 ON MERION KENTUCKY BLUEGRASS TURF.
J H Dunn R E Engel D A Kinney
Northeast Weed Contr Conf Proc 22:392-394
03 Jan 1968 79.9 N814
Chemical control (weeds), Digitaria, Poa.

8408-69
QUACKGRASS CONTROL ON HEAVY CLAY SOILS.
T R Flanagan D R Toole
Northeast Weed Contr Conf Proc 22:293
03 Jan 1968 79.9 N814
Agropyron repens, Alfalfa, Chemical control (weeds), Clay soils, Corn.

8409-69
FORMULATION STUDIES WITH IOXYNIL AND BROMOXYNIL. (ABSTRACT).
C L Foy
Northeast Weed Contr Conf Proc 22:492
03 Jan 1968 79.9 N814
Barley, Beans, Bromoxynil, Chemical control (weeds), Crops, Formulations, Ioxynil.

8410-69
A VARIATION OF PLASTIC ENCLOSURE FOR FIELD-TESTING AQUATIC HERBICIDES.
J E Gallagher W F Evans A R Cooke
Northeast Weed Contr Conf Proc 22:362-365
03 Jan 1968 79.9 N814
Aquatic weeds, Dairy equipment, Herbicides.

8411-69
OCCURRENCE OF OROBANCHE CERNUA ON PLUCHEA LANCEOLATA, AN OBNOXIOUS WEED IN RAJASTHAN, INDIA.
S C Gupta L C Sharma G G Dalela
Plant Dis Rep 53(1):43-44
Jan 1969 1.9 P69P
Biological control (weeds), Orobanche, Orobanche cernua, Parasitic plants, Perennial plants, Pluchea lanceolata, Weed control, Weeds.

8412-69
CHEMICAL WEED CONTROL IN DIRECT SEEDED MARIGOLDS.
C Haramaki G Koch
Northeast Weed Contr Conf Proc 22:259-263
03 Jan 1968 79.9 N814
Benefin, Chemical control (weeds), Herbicides, Tagetes.

8413-69
CONTROL OF ANNUAL WEEDS IN SPRING-SEEDED ALFALFA WITH PREPLANT, PREEMERGENCE, AND POSTEMERGENCE HERBICIDES.
R D Ilnicki H P Wilson
Northeast Weed Contr Conf Proc 22:300-304
03 Jan 1968 79.9 N814
Alfalfa, Bromoxynil, Chemical control (weeds), Dichlorophenoxy)butyric acid, 4-(2,4-, Diphenamid, Pesticide application.

8414-69
REPORT ON THE CURRENT AND PLANNED LOCAL NOXIOUS WEED CONTROL PROGRAMS IN NEW JERSEY.
F R Intelisano
Northeast Weed Contr Conf Proc 22:513-517
03 Jan 1968 79.9 N814
Ambrosia, Herbicides, Legislation, Spraying, Toxicodendron radicans, Weed control.

8415-69
AMINOPHOSPHONATE HERBICIDES. PATENT 3,455,675.
R R Irani
Us Patent Office Offic Gaz 864(3):903-904
15 Jul 1969 156.65 OF2
Chemical control (weeds), Herbicides, Organophosphorus compounds, Patents.

8416-69
USE OF CHARCOAL TO DEACTIVATE HERBICIDE RESIDUES IN TURFGRASS SEEDBEDS.
J A Jagschitz
Northeast Weed Contr Conf Proc 22:401-408
03 Jan 1968 79.9 N814
Charcoal, Chemical control (weeds), Grasses, Herbicide residues, Seedbeds.

8417-69
EFFECTIVENESS OF PREEMERGENCE CRABGRASS HERBICIDES FOR LAWNS AND PUTTING-GREEN TURF.
J A Jagschitz
Northeast Weed Contr Conf Proc 22:384-391
03 Jan 1968 79.9 N814
Chemical control (weeds), Digitaria, Lawns, Turf.

8418-69
CONTRIBUTION TO RISK OF DAMAGE IN THE PRACTICAL USE HERBICIDES. (GE)
W Kabiersch
Nachrichtenbl Dent Pflanzenschutzdienstes 19(1):1-4 REF
Jan 1967 442.9 B832
Chemical control (weeds), Chlorinated hydrocarbons, Herbicides, Plant injuries, Trichloroacetic acid, Trichlorobenzoic acid, 2,3,6-.

8419-69
DIHALOPHENYL-P-NITROPHENYL ETHERS AS HERBICIDES. PATENT 3,454,392.
K Kato H Fujita T Toyama Y Kiyohisa T Yoshimoto T Yanami
Us Patent Office Offic Gaz 864(2):523
08 Jul 1969 156.65 OF2
Chemical control (weeds), Halogen compounds, Herbicides, Patents.

8420-69
NOTES ON DYER'S GREENWEED (GENISTA TINCTORIA L., LEGUMINOSAE).
L J King
Northeast Weed Contr Conf Proc 22:501-503
03 Jan 1968 79.9 N814
Genista tinctoria, History, Weeds.

8421-69
TIME OF APPLICATION OF EPTC FOR NUTGRASS CONTROL IN POTATOES.
H Kuratle E M Rahn
Northeast Weed Contr Conf Proc 22:424-428
03 Jan 1968 79.9 N814
Chemical control (weeds), Crop yields, Cyperus esculentus, Ethyl N,N-dipropylthiolcarbamate, Potatoes.

8422-69
EFFECTIVENESS OF TRIAZINES AND EPTC FOR WEED CONTROL IN SEEDLING LEGUMES.
D L Linscott R D Hagin
Northeast Weed Contr Conf Proc 22:299
03 Jan 1968 79.9 N814
Alfalfa, Birdsfoot trefoil, Chemical control (weeds), Ethyl N,N-dipropylthiolcarbamate, Triazines, Weed control.

8423-69
CONTROL OF DANDELION AND SPOTTED-SPURGE IN LAWN TURF WITH HERBICIDES.
A R Mazur J A Jagschitz
Northeast Weed Contr Conf Proc 22:395-400
03 Jan 1968 79.9 N814
Chemical control (weeds), Euphorbia maculata, Lawns, Pesticide mixtures, Taraxacum officinale.

8424-69
FOREST CHEMI-THINNING WITH CACODYLIC ACID - A PROGRESS REPORT.
R R Morrow
Northeast Weed Contr Conf Proc 22:346-348
03 Jan 1968 79.9 N814
Cacodylic acid, Defoliants, Forests.

8425-69
POTATO VINE KILLING IN MAINE - 1966.
H J Murphy M J Goven
Northeast Weed Contr Conf Proc 22:448-454
03 Jan 1968 79.9 N814
Climbing plants, Defoliants, Herbicides, Potatoes.

8426-69
METHODS OF CONTROLLING WEEDS WITH DERIVATIVES OF AMINOOXY LOWER ALKANOIC ACIDS. PATENT 3,457,063.
R P Neighbors
Us Patent Office Offic Gaz 864(4):1272
22 Jul 1969 156.65 OF2
Chemical control (weeds), Patents, Weed control.

8427-69
CHEMICAL WEED CONTROL IN CROPS.
R Parker L A Derscheid J F Stritzke C E Stymiest
S Dak State Univ Ext Ext Mimeogr Circ 443:5P
Apr 1969 275.29 SO85FS
Chemical control (weeds), Chlorinated hydrocarbons, Field crops, Flax, Forage plants, Grain, Grasses, Herbicides, Phenoxy acid compounds, Soybeans, Weed control, Weeds.

8428-69
HERBICIDE TRIALS FOR ANNUAL WEEDS IN SOYBEANS. (ABSTRACT).
J V Parochetti
Northeast Weed Contr Conf Proc 22:481
03 Jan 1968 79.9 N814
Chemical control (weeds), Herbicides, Soybeans.

8429-69
PREEMERGENCE AND POSTEMERGENCE YELLOW FOXTAIL CONTROL IN CORN.
S M Raleigh

Northeast Weed Contr Conf Proc 22:279-285
03 Jan 1968 79.9 N814
Atrazine, Chemical control (weeds), Corn, Setaria glauca, Surface-active agents.

8430-69
POSTEMERGENCE CONTROL OF VERONICA FILIFORMIS WITH DCPA.
R L Schauer
Northeast Weed Contr Conf Proc 22:518-520
03 Jan 1968 79.9 N814
Chemical control (weeds), Dimethyl 2,3,5,6-tetrachloroterephthalate, Veronica filiformis.

8431-69
FROM WEEDS TO PASTURE IN ONE YEAR.
M A Schwerdt
S Australia J Agr 72(5):184-187
Dec 1968 23 SO84
Chemical control (weeds), Diquat, Fertilizers, Herbicides, Lolium, Paraquat, Pasture management, Pastures, Spraying, Subterranean clover.

8432-69
METHODS OF WEED CONTROL IN SUGAR BEETS.
T W Scott T W Bateman
Northeast Weed Contr Conf Proc 22:466-472
03 Jan 1968 79.9 N814
Chemical control (weeds), Crop yields, Herbicides, Plant injuries, Sugar beets.

8433-69
PELLETED FENURON FOR CONVERSION OF LOW-QUALITY HARDWOOD STANDS TO JAPANESE LARCH.
R D Shipman
Northeast Weed Contr Conf Proc 22:321-328
03 Jan 1968 79.9 N814
Defoliation, Fenuron, Larix leptolepis, Seedlings.

8434-69
PROCESS FOR DESICCATING PLANTS. PATENT 3,454,390.
H Q Smith
Us Patent Office Offic Gaz 864(2):522
08 Jul 1969 156.65 OF2
Defoliation, Herbicides, Patents, Tin compounds.

8435-69
THE RESPONSE OF BRUSH TO PICLORAM, DICAMBA, 2,3,6-TBA AND PHENOXY HERBICIDES.
J P Sterrett W E Chappell
Northeast Weed Contr Conf Proc 22:318-320
03 Jan 1968 79.9 N814
Brush control, Chemical control (weeds), D, 2,4-, Dicamba, Pesticide mixtures, Picloram, T, 2,4,5-, Trichlorobenzoic acid, 2,3,6-.

8436-69
WEED CONTROL IN SUGAR BEETS WITH PREEMERGENCE HERBICIDES.
M F Trevett W Gardner
Northeast Weed Contr Conf Proc 22:459-465
03 Jan 1968 79.9 N814
Chemical control (weeds), Chloro-N-(isobutoxymethyl)-2',6'-acetoxylidide, 2-, Crop yields, Herbicides, Pesticide mixtures, Pyrazon, Sugar beets, Trichloroacetic acid.

8437-69
WEED CONTROL IN WHITE POTATOES WITH PREEMERGENCE HERBICIDES.
M F Trevett W Gardner H J Murphy
Northeast Weed Contr Conf Proc 22:411-416
03 Jan 1968 79.9 N814
Chemical control (weeds), Crop yields, Herbicides, Potatoes.

8438-69
PRELIMINARY STUDIES OF THE EFFECTS OF CACODYLIC ACID ON THE ACTIVITY OF 2,4-D AND PICLORAM IN BEAN PLANTS. (ABSTRACT).
G B Truchelut J W Martin W J Hart
Northeast Weed Contr Conf Proc 22:491
03 Jan 1968 79.9 N814
Cacodylic acid, D, 2,4-, Defoliants, Herbicides, Kidney beans, Picloram, Plant translocation.

8439-69
N-(HYDROCARBYLTHIOALKYL)HALOPH ENOXYACYLAMIDES AS HERBICIDES. PATENT 3,459,533.
W E Weesner
Us Patent Office Offic Gaz 865(1):177
05 Aug 1969 156.65 OF2
Chemical control (weeds), Halogen compounds, Herbicides, Patents.

8440-69
THE EFFECTS OF PHYTOBLAND OILS AND SPRAY VOLUME ON POSTEMERGENCE ACTIVITY OF ATRAZINE AND COMBINATIONS OF ATRAZINE WITH LINURON IN CORN.
H P Wilson R D Ilnicki
Northeast Weed Contr Conf Proc 22:272-278
03 Jan 1968 79.9 N814
Atrazine, Chemical control (weeds), Corn, Linuron, Spraying.

8441-69
WEED AND CROP RESPONSES TO HERBICIDES APPLIED WITH VARIOUS CULTURAL PRACTICES AND AT DIFFERENT STAGES OF POTATO GROWTH.
H P Wilson R D Ilnicki
Northeast Weed Contr Conf Proc 22:429-438
03 Jan 1968 79.9 N814
Chemical control (weeds), Crop yields, Herbicides, Potatoes.

OTHER PESTS

8442-69
NITROPHENYL CARBAMIC ACID ESTERS AS MOLLUSCICIDES. PATENT 3,458,639.
R Heiss E Grigat E Bocker G Hermann
Us Patent Office Offic Gaz 864(5):1647
29 Jul 1969 156.65 OF2
Carbamates, Chemical control (pests), Molluscacides, Patents.

8443-69
REPELLING PHEASANTS FROM SPROUTING CORN WITH A CARBAMATE INSECTICIDE.
R R West R B Brunton D J Cunningham
J Wildlife Manage 33(1):216-219
Jan 1969 410 J827
Carbamates, Corn, Pheasants, Repellency tests.

The protection of sprouting corn from pheasants (Phasianus colchicus) by treating the seed with a new repellent, DRC -736 (4-(methylthio)-3,5-xylyl N-methylcarbamate), was evaluated in May and June, 1967 on the Sand Lake National Wildlife Refuge, South Dakota. The three treatments (0.5 and 3.0 percent DRC-736 and the control) were each evaluated 100 times on 0.016-acre plots in each of four fields. The number of corn seedlings pheasants destroyed in the 400 plots of each treatment was 2,192 for the control but only 99 in the 0.5-percent plots and 59 in the 3.0-percent plots.

LIVESTOCK PROTECTION

DISEASES

8444-69
SEED DRESSINGS AND GAME BIRDS.
Dublin, Plant Sciences And Crop Husbandry Div. 18-19
1967 103 D852
Aldrin, Chlorinated hydrocarbons, DDT, Game birds, Lindane, Mercury compounds, Pheasants, Seed dressings.

8445-69
METHOD OF TREATING INFLUENZA VIRAL INFECTION. PATENT 3,459,861.
R B Angier K C Murdock J H Clark
Us Patent Office Offic Gaz 865(1):231
05 Aug 1969 156.65 OF2
Animal diseases, Drugs, Influenza viruses, Patents.

8446-69
IMMUNOLOGIC REACTIONS IN ANIMALS WITH TUMORS.
R D Antonyuk
Bull Exp Biol Med 66(8):908-911 REF
Aug 1968 442.8 B87AE
Antigens, Cancer, Carcinogens, Hormones, Immunology, Neoplasms, Rats, Serum.

8447-69
CONTROL OF HELMINTHIASIS WITH A SERIES OF 2-(OMEGA-(2-THIENYL)ALKYL)-, 2-(2-(2-THIENYL)VINYL) AND THE CORRESPONDING ISOMERIC 3-THIENYL DERIVATIVES OF THIAZOLINE AND 5,6-DIHYDRO-4H-1,3-THIAZINE. PATENT 3,458,633.
W C Austin L H Conover J W McFarland D H Morgan
Us Patent Office Offic Gaz 864(5):1646
29 Jul 1969 156.65 OF2
Anthelmintics, Helminthiasis, Synthesis, Thiazines, Thiazolines.

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METHODS OF TREATING COCCIDIOSIS WITH 4-SULFANILAMIDO-2,6-DIMETHOXYPYRIMIDINE. PATENT 3,458,631.
J Bauernfeind M Mitrovic
Us Patent Office Offic Gaz 864(5):1645-1646
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Animal diseases, Coccidiosis, Patents, Sulfanilamido-2,6-dimethoxypyrimidine, 4-.

8449-69
RNA SYNTHESIS IN CHICK EMBRYO CELLS INFECTED WITH DEFFERENT STRAINS OF NDV.
M A Bratt
Virology 38(3):485-488 REF
Jul 1969 448.8 V81
Chicks, Cytology, Embryology, Livestock diseases, Newcastle disease virus, Paramyxoviruses, Poultry, Ribonucleic acid, Synthesis, Virology, Virus diseases (animals).

8450-69
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T de Brito A Tiriba C V F Godoy D O Penna F M Jordao
Pathol Micro Biol 31(6):365-377 REF
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Electron microscopy, Glomerulonephritis, Human diseases, Laboratory animals, Light, Rickettsial diseases, Rocky mountain spotted fever.

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M I Chernisheva P A Vershilova
J Hyg Epidemiol Microbiol Immunol 13(2):149-153 REF
1969 448.8 J826
Antibodies, Brucellosis, Cells, Cytology, Guinea pigs. English, French, German, and Spanish summaries.

8452-69
AUTOMATED DETERMINATION OF ZOALENE IN FEEDS.
H L Christopherson
Ass Offic Anal Chem J 52(1):93-101
Jan 1969 381 AS7
Chemical analysis, Coccidiosis, Feed additives, Poultry, Zoalene.

8453-69
RECOMBINATION IN NEWCASTLE DISEASE VIRUS (NDV): THE PROBLEM OF COMPLEMENTING HETEROZYGOTES.

J E Dahlberg E H Simon
Virology 38(3):490-493 REF
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Newcastle disease virus, Paramyxoviruses, Temperature, Virology, Virus diseases (animals), Virus mutation.

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HISTONE-MEDIATED CLUMPING OF NEWCASTLE DISEASE VIRUS (NDV).
J E Dahlberg E H Simon
Virology 38(3):488-490
Jul 1969 448.8 V81
Histones, Newcastle disease virus, Paramyxoviruses, Virology, Virus diseases (animals).

8455-69
SITE DIFFERENCE FOR SOLID TUMOR GROWTH.
J G Eichten Y Maruyama
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Sep 1968 442.8 G91
Adenocarcinoma, Animal diseases, Kinetics, Laboratory animals, Mice, Neoplasms, Physiology.

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P V Glan
Bull Exp Biol Med 66(8):919-921 REF
Aug 1968 442.8 B87AE
Autoradiography, Chicks, Cytology, Mitosis, Newcastle disease virus, Paramyxoviruses, Virus diseases (animals).

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SWINE SALMONELLOSIS IN A HAWAIIAN PIGGERY.
J M Gooch R L Haddock
Amer Vet Med Ass J 154(9):1051-1054
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Salmonellosis, Swine. English summary

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H A Johnson F Amendola
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Sep 1968 442.8 G91
Animal diseases, Animal physiology, Hypertrophy, Kidneys, Mice, Mitochondria.

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J Joncas L Berthiaume V Pavilanis
Virology 38(3):493-497 REF
Jul 1969 448.8 V81
Human diseases, Morphology, Myxoviruses, Respiratory syncytial virus, Virology, Virus diseases (animals).

8462-69
SURVIVAL OF SPOROZOITES OF LEUCOCYTOZOON IN BIRDS FOR 11 DAYS.
R A Khan S S Desser A M Fallis
Can J Zool 47(3):347-350 REF
May 1969 470 C16D
Ducks, Leucocytozoon disease, Leucocytozoon dubreuili, Leucocytozoon simondi, Liver, Parasitism, Protozoa, Robins, Sporozoites.

8463-69
PREPARATION OF NITROIMIDAZOLE CARBAMATES. PATENT 3,459,764.
J Kollonitsch
Us Patent Office Offic Gaz 865(1):216
05 Aug 1969 156.65 OF2
Animal diseases, Blackhead, Carbamates, Patents, Trichomoniasis.

8464-69
SUPPLEMENT NO. XI TO KAUFMANN-WHITE SCHEME. (FR)
L Le Minor
Inst Pasteur Ann 115(3):379-385
Sep 1968 448.3 AN75
Bacteria, Salmonella, Serological tests. English summary.

8465-69
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N P Leshchinskaya N A Ivanova A A Smorodintsev
Bull Exp Biol Med 66(8):904-907 REF
Aug 1968 442.8 B87AE
Eggs, Leukemia, Neoplasms, Poultry, Vaccines, Viral vaccines, Virus diseases (animals).

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DISEASES OF MINK. (GE)
H Ch Loliger
Deut Pelztierzuchter 42(10):177-182
01 Oct 1968 412.628 D48
Animal diseases, Animal husbandry, Animal nutrition, Deficiency diseases, Immunization, Infectious diseases, Minks, Veterinary medicine, Virus diseases (animals). More than 50 diseases are briefly discussed.

8467-69
FLUORESCENT ANTIBODY STAINING OF FOUR BABESIA SPECIES.
C G Ludford
Exp Parasitol 24(3):327-335 REF
Jun 1969 436.8 EX7
Antibodies, Babesia, Blood parasites, Cattle, Dogs, Immunofluorescence, Rats.

8468-69
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M B Marx
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Feed, Poultry, Salmonella. English summary

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K A McKay D H Neil A H Corner
Growth 31(4):357-368 REF
Dec 1967 442.8 G91
Animal physiology, Autopsies, Bacteria, Blood, Cattle, Glucose compounds, Livestock diseases, Lymph nodes, Lymphosarcoma, Neoplasms, Tissue culture.

8470-69
DRUG RESISTANCE IN EIMERIA TENELLA. IX. EFFECT OF ACRIFLAVINE-MEDIATED REVERSION ON REACQUISITION OF RESISTANCE TO AMPROLIUM.
D K McLoughlin M B Chute
J Parasitol 55(3):660-661
Jun 1969 448.8 J824
Acriflavine, Amprolium, Chickens, Drug resistance, Eimeria tenella.

8471-69
SECONDARY EFFECTS OF ENTOMOPHAGOUS FUNGI ON HUMANS AND VERTEBRATES: ACTUAL CASES. (GE)
E Muller-Kogler
Entomophaga 12(5):429-441 REF
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Aspergillus, Beauveria, Biological control (insects), Entomogenous fungi, Entomophthora coronata, Human diseases, Vertebrates. English abstract

8472-69
EVIDENCE FOR CONVERSION OF DDT TO TDE IN RAT LIVER: I. LIVER/BODY FAT RATIOS OF TDE.
A Ottoboni J I Ferguson
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Animal physiology, Biochemistry, DDT, Fats, Liver, Rats, TDE.

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EFFECT OF BIOTIN DEFICIENCY ON FOOD INTAKE AND BODY AND ORGAN WEIGHTS OF MALE ALBINO RATS.
M S Patel S P Mistry
Growth 32(3):175-187
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Animal nutrition, Animal physiology, Biotin, Diet, Egg whites, Food nutritive value, Rats.

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IDENTIFICATION OF BRUCELLA ABORTUS: OXIDATIVE METABOLISM AND PHAGE TYPING. (FR)
A Philippon
Inst Pasteur Ann 115(3):367-378 REF
Sep 1968 448.3 AN75
Bacteria, Bacteriophages, Brucella abortus, Livestock diseases, Metabolism, Oxidation. English summary.

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D Polesna
J Hyg Epidemiol Microbiol Immunol 13(2):240-247 REF
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Agar, Antigens, Aspergillus, Rabbits, Serum. English, French, German, and Spanish summaries.

8476-69
ULTRASTRUCTURAL STUDIES ON THE SPOROZOITE OF EIMERIA TENELLA.
J F Ryley
Parasitology 59(1):67-72 REF
Feb 1969 448.8 P21
Eimeria tenella, Electron microscopy, Morphology.

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STUDIES ON MOUSE LEUKEMIA VIRUSES. I. ISOLATION AND CHARACTERIZATION OF A GROUP-SPECIFIC ANTIGEN.
W Schafer F A Anderer H Bauer L Pister
Virology 38(3):387-394 REF
Jul 1969 448.8 V81
Antigens, Blood plasma, Centrifugation, Electrophoresis, Mice, Mouse leukemia complex viruses, Serological tests, Virology, Virus diseases (animals).

8478-69
BOVINE VIBRIOSIS.
R C Searl
Can Cattlemen 32(5):24,40
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Abortion, Bacterins, Brucellosis, Cattle, Diagnosis, Livestock diseases, Sterility, Venereal diseases, Vibrio fetus, Vibriosis.

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D P Sinha K K Keahey U V Mostosky R G Schirmer
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Cats, Esophagus, Periearditis, Pneumonia. English summary

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SYNCYTIA FORMATION OF MOSQUITO CELL CULTURES MEDIATED BY TYPE 2 DENGUE VIRUS.
E C Suitor F J Paul
Virology 38(3):482-485 REF
Jul 1969 448.8 V81
Aedes albopictus, Arboviruses, Culieidae, Culture media, Cytology, Denguc (man), Inseet vectors, Virology, Virus diseases (animals).

8481-69
COLORIMETRIC DETERMINATION OF RONIDAZOLE IN FEEDS.
C R Szalkowski J Kanora
Ass Offic Anal Chem J 52(1):101-107
Jan 1969 381 AS7
Blaekhead, Chemieal analysis, Feed additives, Ronidazolc, Speetrophotometry, Turkeys.

8482-69
LEUKOCYTE SYSTEM OF RABBITS RECEIVING REPEATED INJECTIONS OF STAPHYLOCOCCAL LEUKOCIDIN.
S Szmigielski J Jeljaszewicz C Zak
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Enzymes, Hemolysins, Injeetions, Leukocytes, Rabbits, Staphyloeoecus, Toxins.

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PRECISE IDENTIFICATION OF THE STRAIN CALLED SHIGELLA PARADYSENTERIAE Y6R OR FLEXNERI Y6R (BURNET). (FR)
S Szturm-Rubinsten M Pieehaud
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Sep 1968 448.3 AN75
Antigens, Baeteria, Bioehemistry, Dysentery, Shigella flexneri, Shigella sonnei.

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K Toyoshima P K Vogt
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Embryology, Poultry, Rous sarcoma virus, Sareoma, Virus diseases (animals).

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M J Weinstein G M Luedemann G H Wagman J A Marquez
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08 Jul 1969 156.65 OF2
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8486-69
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M J Weinstein G M Luedemann G H Wagman
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29 Jul 1969 156.65 OF2
Antibioties, Patents, Streptomyees.

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THE POLYPEPTIDES OF ADENOVIRUS. III. SYNTHESIS IN INFECTED CELLS.
D O White M D Scharff J V Maizel
Virology 38(3):395-406 REF
Jul 1969 448.8 V81
Aetinomyein D, Adenoviruses, Cells, Dna viruses, Peptides, Protein synthesis, Virology.

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EFFECT OF 5-FLUOROUACIL AND 5-BROMO-2'-DEOXYURIDINE ON THE INDUCTION OF THYMIDINE KINASE IN POLYOMA VIRUSINFECTED MOUSE EMBRYO CELLS.
J Zemla
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Oct 1968 442.8 B5236
Bromo-2'-deoxyuridine, 5-, Embryos, Enzymes, Fluorouracil, 5-, Kinases, Kineties, Miee, Polyoma virus, Pyrimidines, Reproduetion, Synthesis, Thymidine kinase, Virology, Virus diseases (animals).

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BIOLOGY AND ECONOMIC IMPORTANCE OF THE CHIGGER NEOSCHONGASTIA AMERICANA ON TURKEYS.
S E Kunz M A Priee O H Graham
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IMMUNOLOGICAL RESPONSES OF THE MAMMALIAN HOST AGAINST TAPEWORM INFECTIONS. VIII. SOME EVIDENCE AGAINST CELLULAR IMMUNITY INDUCED IN SHEEP BY ACTIVATED EMBRYOS OF TAENIA HYDATIGENA AND T. OVIS.
S K Blundell M A Gemmell F N Maenamara
Exp Parasitol 24(3):291-298 REF
Jun 1969 436.8 EX7
Immunity, Sheep, Taenia hydatigena, Taenia ovis.

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GASTROINTESTINAL NEMATODES OF VENEZUELAN CARNIVORA. (SP)
C Diaz-Ungria
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Mar 1967 516 C172
Cats, Dogs, Gastrointestinal system, Nematodes, Parasitism. English summary.

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POPULATION STUDIES ON THE INFECTIVE STAGE OF SOME NEMIATODE PARASITES OF SHEEP. III. THE DISTRIBUTION OF STRONGYLOID EGG OUTPUT IN FLOCKS OF SHEEP.
A D Donald
Parasitology 58(4):951-960 REF
Nov 1968 448.8 P21
Eggs, Feees, Population, Sheep, Statistical analysis, Strongyloides.

8494-69
POPULATION STUDIES ON THE INFECTIVE STAGE OF SOME NEMIATODE PARASITES OF SHEEP. II. THE DISTRIBUTION OF FAECAL DEPOSITS ON FIELDS GRAZED BY SHEEP.
A D Donald R T Leslie
Parasitology 59(1):141-157 REF
Feb 1969 448.8 P21
Feees, Nematodes, Population, Sheep, Statistical analysis.

8495-69
HEMOGLOBINS OF PARASITIC NEMATODES. II. ELECTROPHORETIC ANALYSIS OF THE MULTIPLE HEMOGLOBINS OF ADULTS AND DEVELOPMENTAL STAGES OF THE RABBIT STOMACH WORM, OBELISCOIDES CUNICULI.
M A Fernando
J Parasitol 55(3):493-497 REF
Jun 1969 448.8 J824
Biochemistry, Eleetrophoresis, Hemoglobin, Obeliseoides cunieuli, Physiology.

8496-69
THE VULVAR REGION OF HAEMONCHUS CONTORTUS (NEMATODA TRICHOSTRONGYLIDAE) IN SPANISH SHEEP, WITH THE DESCRIPTION SUPPORTING POSSIBLE SUBSPECIES, H. CONTORTUS HISPANICUS. (SP)
F Gomez
Rev Iberica Parasitol 28(4,OCT-DEC):473-477
Dec 1968 436.8 R32
Haemonehus eontortus, Morphology, Sheep, Taxonomy. English abstraet.

8497-69
ANTHELMINTIC COMPOSITIONS AND METHODS EMPLOYING 2-(2'-OXAZOLIN-2'-YL)-BENZIMIDAZOLES. PATENT 3,457,351.
G Holan E L Samuel
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Anthelminties, Benzimidazoles, Patents.

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THE INFLUENCE OF DIETARY METHIONINE ON THE AMINO ACID POOL OF HYMENOLEPIS DIMINUTA IN THE RAT'S INTESTINE.
C A Hopkins
Parasitology 59(2):407-427 REF
May 1969 448.8 P21
Amino aeids, Chemical analysis, Hymenolepis diminuta, Intestines, Metabolism, Methionine, Radioaetive traeers, Rats.

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R E Howells
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Eleetron mieroseopy, Kidneys, Moniezia expansa, Morphology.

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EFFECT OF HETEROLOGOUS ANTIBODY ON HAENONCHUS CONTORTUS DEVELOPMENT IN VITRO.
B P Jakstys P H Silverman
J Parasitol 55(3):486-492 REF
Jun 1969 448.8 J824
Antibodies, Haemonehus contortus, Immunoehemistry, Nematodes, Physiology.

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THE ULTRASTRUCTURE OF THE INTESTINAL EPITHELIUM OF METASTRONGYLUS SP. (NEMIATODAI STRONGYLOIDEA).
T Jenkins D A Erasmus
Parasitology 59(2):335-342 REF
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Intestines, Metastrongylus, Morphology.

8502-69
PURIFICATION AND IMMUNOCHEMICAL ANALYSIS OF A GENUS-SPECIFIC CUTICULAR ANTIGEN OF TOXOCARA CANIS.
E L Jeska
J Parasitol 55(3):465-471
Jun 1969 448.8 J824
Antigens, Asearis lumbricoides, Asearis lumbrieoides suum, Cutiele, Immunoehemistry, Toxoeara eanis.

8503-69
QUANTITATIVE ASPECTS OF LIPID UTILIZATION DURING EMBRYOGENESIS OF ASCARIS SUUM EGGS.
P F Jczyk D Fairbairn
J Parasitol 55(3):477-479
Jun 1969 448.8 J824
Ascaris lumbricoides suum, Biochemistry, Eggs, Lipids, Metabolism.

8504-69
CHITINASE ACTIVITY IN DEVELOPMENTAL STAGES OF ASCARIS SUUM AND ITS INHIBITION BY ANTIBODY.
D E Justus M H Ivey
J Parasitol 55(3):472-476
Jun 1969 448.8 J824
Antibodies, Ascaris lumbricoides suum, Biochemistry, Chitin, Enzymes, Physiology.

8505-69
THE DEVELOPMENT OF HAEMONCHUS CONTORTUS IN VITRO. I. THE EFFECT OF PH AND PCO2 ON THE RATE OF DEVELOPMENT TO THE FOURTH-STAGE LARVA.
C J Mapes
Parasitology 59(1):215-231 REF
Feb 1969 448.8 P21
Biochemistry, Carbon dioxide, Haemonchus contortus, Histamine, Hydrogen-ion concentration, Larvae, Mucins, Physiology.

8506-69
MORPHOLOGICAL AND HISTOCHEMICAL STUDIES ON THE LARVAL STAGES OF METASTRONGYLUS SPP. (LUNGWORMS OF SWINE) IN THE EARTHWORM INTERMEDIATE HOST, EISENIA FOETIDA, SAVIGNY 1826.
A J Probert
Parasitology 59(2):269-277 REF
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Annelida, Deoxyribonucleic acid, Histochemistry, Larvae, Metastrongylus, Morphology.

8507-69
PARASITES AS BIOLOGICAL MODELS.
J D Smyth
Parasitology 59(1):73-91 REF
Feb 1969 448.8 P21
Biochemistry, Biology, Cytology, Echinococcus granulosus, Genetics, Immunology, Models, Physiology, Taenia.

8508-69
ACTIVITY OF PARBENDAZOLE UPON TRICHINELLA SPIRALIS IN MICE.
V J Theodorides M Laderman
J Parasitol 55(3):678
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Anthelmintics, Drug therapy, Mice, Trichinella spiralis.

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THE ANTIGENIC COMPOSITION OF VARIOUS PREPARATIONS OF FERTILE HYDATIC CYSTS ANALYZED BY IMMUNODIFFUSION AND IMMUNOELECTROPHORESIS. (SP)
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Rev Iberica Parasitol 28(4,OCT-DEC):535-552 REF
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Antigens, Cattle, Echinococcosis, Electrophoresis, Immunodiagnosis, Immunology. English abstract.

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U S D A Farmers Bull 2240:36P
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Ascaris, Cestoda, Livestock diseases, Parasitism, Pasture management, Protozoa, Sanitation, Swine, Trematoda.

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F J V Vusse
J Parasitol 55(3):675-676
Jun 1969 448.8 J824
Aging, Cestodiasis, Rabbits, Sex, Taenia pisiformis.

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A H Waddell
Parasitology 58(4):907-919 REF
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Electron microscopy, Morphology, Physiology, Stephanurus dentatus.

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D A Wassall D A Denham
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Eggs, Feces, Methodology, Nematodes, Nematodirus.

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SEROLOGICAL AND MORPHOLOGICAL STUDIES ON THE INTER- AND INTRASPECIFIC DIFFERENCES OF THE PLANT-PARASITIC NEMATODES HETERODERA AND DITYLENCHUS.
J M Webster D J Hooper
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Antibodies, Antigens, Ditylenchus, Heterodera, Morphology, Plant nematodes, Serodiagnosis.

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THE FINE STRUCTURE OF THE PROTONEPHRIDIAL SYSTEM IN THE MIRACIDIUM OF FASCIOLA HEPATICA.
R A Wilson
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Electron microscopy, Fasciola hepatica, Kidneys, Morphology.

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REDESCRIPTION OF ORNITHOBILHARZIA CANALICULATA (RUD.) ODHNER, WITH NOTES ON CLASSIFICATION OF THE GENUS ORNITHOBILHARZIA AND THE SUBFAMILY SCHISTOSOMATINAE (TREMATODA).
G Witenberg J Lengy
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Dec 1967 410 IS7
Birds, Nematodes, Ornithobilharzia, Parasitism, Schistosomatidae, Taxonomy, Trematoda, Zoogeography.

8517-69
BINDING OF 60-CO-VITAMIN B12 BY ASCARIS SUUM INTESTINE.
S G Zam W E Martin
J Parasitol 55(3):480-485 REF
Jun 1969 448.8 J824
Ascaris lumbricoides suum, Biochemistry, Intestines, Radioactive tracers, Vitamin B-12.

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8518-69
GARDONA AS A MOTHPROOFER OF WOOLEN FABRIC.
R E Bry J H Lang N M Dennis
J Econ Entomol 62(4):868-872
15 Aug 1969 421 J822
Attagenus megatoma, Chloro-1-(2,4,5-trichlorophenyl)vinyl dimethyl phosphate, 2-, Larvae, Organophosphorus compounds, Tineola bisselliella, Wool.

8519-69
EFFECT OF GAMMA RADIATION ON THE INSECTICIDAL EFFICIENCY OF MALATHION DEPOSITS ON WHEAT AND KRAFT PAPER.
R R Cogburn P G Mahany
J Econ Entomol 62(4):829-831
15 Aug 1969 421 J822
Biological assay, Cobalt isotopes, Gamma rays, Insecticides, Malathion, Organophosphorus compounds, Paper, Stored products, Tribolium castaneum, Wheat.

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COLLABORATIVE STUDY ON THE DETERMINATION OF AFLATOXINS IN COTTONSEED PRODUCTS.
W A Pons
Ass Offic Anal Chem J 52(1):61-72
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Aflatoxin, Chemical analysis, Chromatography, Cottonseed.

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G K Girish G K Punj
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Corcyra cephalonica, Insect behavior, Insect pests, Insect physiology, Rhyzopertha dominica, Stegobium paniceum, Stored products, Trogoderma granarium.

RODENTS AND OTHER PESTS

8522-69
STUDIES ON RODENTS AND THEIR CONTROL. PART V. SOME FACTORS AFFECTING LETHAL FEEDING PERIOD WITH WARFARIN.
K Krishnamurthy V Uniyal
Bull Grain Technol 7(1):5-8
Mar 1969 TS21 20.B8
Baits, Chemical control (pests), Rodenticides, Rodents, Warfarin.

8523-69
THE SIGNIFICANCE OF DDT IN HOUSEHOLD AND STRUCTURAL PEST CONTROL - 1969.
Nat Pest Cont Ass Tech Release (6):2P
21 Feb 1969 423.9 N213T
Bats, Chemical control (pests), Chlorinated hydrocarbons, DDT, Household pests, Mice.

ENVIRONMENTAL CONTAMINATION

8524-69
EFFECTS OF PESTICIDES ON RAW WASTEWATER.
L W Canter C D Nance D R Rowe
Water Sewage Works 116(6):230-234
Jun 1969 290.8 M92
Chlorinated hydrocarbons, Dieldrin, Endrin, Escherichia coli, Insecticide residues, Sewage, Toxicity, Water pollution.

This study examines the effect of commercial hydrocarbon pesticide products on the oxygen demand of wastewater and on the growth characteristics of bacteria.

8525-69
TECHNIQUES AND PRELIMINARY DATA OF THE MOVEMENT OF DDT AND ZECTRAN THROUGH A FOREST SOIL.
S P Gessel D W Cole H Riekerk
Agron Abs 58:94
241 AM39
Chromatography, DDT, Forest soils, Insecticide residues, Pesticide analysis.

8526-69
THE AIR POLLUTION MENACE OF RAGWEED POLLEN.

C N Howison
Northeast Weed Contr Conf Proc 22:349-356
03 Jan 1968 79.9 N814
Airborne pollen, Ambrosia, D, 2,4-, Meteorology.

8527-69
IDENTIFICATION AND MEASUREMENT OF CHLORINATED ORGANIC PESTICIDES IN WATER BY ELECTRON-CAPTURE GAS CHROMATOGRAPHY.
W L Lamar D F Goerlitz
1817-B, 12 P., REF.
1965 407 G29W
Aldrin, Chlorinated hydrocarbons, Chromatography, Dieldrin, DDT, Endrin, Heptachlor, Heptachlor epoxide, Lindane, Toxaphene, Water pollution.

8528-69
IDENTIFICATION AND MEASUREMENT OF CHLORINATED ORGANIC PESTICIDES IN WATER BY ELECTRON-CAPTURE GAS CHROMATOGRAPHY.
W L Lamar D F Goerlitz L M Law
1817-B) 12 P., REF.
1965 407 G29W
Aldrin, Chlorinated hydrocarbons, Chromatography, Dieldrin, DDT, Endrin, Heptachlor, Heptachlor epoxide, Lindane, Toxaphene, Water pollution.

8529-69
REGULATORY ACTIVITIES OF THE CONNECTICUT STATE BOARD OF PESTICIDE CONTROL.
B T Peck
Northeast Weed Contr Conf Proc 22:380-383
03 Jan 1968 79.9 N814
Aquatic weeds, Fish, Pest control operators, Pesticide application, Regulations, Weed control.

8530-69
DETERMINATION OF PESTICIDES IN WATER BY MICROCOULOMETRIC GAS CHROMATOGRAPHY AFTER LIQUID-LIQUID EXTRACTION.
J I Teasley W S Cox
Amer Water Works Ass J 55(8):1093-1096
Aug 1963 292.9 AM32J
Aldrin, Benzene hexachloride, Chlorinated hydrocarbons, Chromatography, Colorimetry, Diazinon, Dieldrin, DDT, Organophosphorus compounds, Parathion, Pesticide residues, Phosphorothioic acid esters, Toxaphene, Water pollution.

8531-69
PERSISTENCE OF PESTICIDES IN ORCHARDS AND ORCHARD SOILS.
L C Terriere U Kiimagi R W Zwick P H Westigard
Advances Chem Ser 60:263-270 REF
1966 381 AD93
DDT, Halogenated insecticides, Insecticide residues, Orchards, Persistence, Soils.

Approximately 40 per cent of the DDT applied to orchards since 1946 is still present in the soil, most of it in the top 12 inches.

8532-69
PERSISTENCE OF PESTICIDES IN ORCHARDS AND ORCHARD SOILS. IN; ORGANIC PESTICIDES IN THE ENVIRONMENT; SYMPOSIUM...AMERICAN CHEMICAL SOCIETY, ATLANTIC CITY, N.J., SEPT. 13-IS, 1965. ROBERT J. GOULD, ED.
L C Terriere U Kiigemagi R W Zwick P H Westigard
Advances Chem Ser 60:263-270, REF.
1966 381 AD93
Apples, Chlorinated hydrocarbons, DDT, Groundwater, Insecticide residues, Metabolites, Pears, Soil contamination, Water pollution.

8533-69
PESTICIDE DRIFT. I. HIGH-CLEARANCE VS. AERIAL APPLICATION OF SPRAYS.
G W Ware B J Estesen W P Cahill P D Gerhardt K R Frost
J Econ Entomol 62(4):840-843
15 Aug 1969 421 J822
Aerial spraying, Air pollution, Chlorinated hydrocarbons, Cotton, Dairy equipment, Insecticide residues, Methoxychlor, Spraying, Spraying equipment.

8534-69
ADMINISTRATION OF AQUATIC NUISANCE CONTROL IN ONTARIO.
D Wells I Wile
Northeast Weed Contr Conf Proc 22:374-379
03 Jan 1968 79.9 N814
Aquatic weeds, Fish, Management, Weed control.

RESIDUES

8535-69
PESTICIDE RESIDUES IN FOOD.
Dublin, Plant Sciences And Crop Husbandry Div. 16-17
1967 103 D852
Aldrin, Chlorinated hydrocarbons, Dairy products, DDT, Feed, Lindane, Mutton, Pesticide residues, Seeds, Shellfish.

8536-69
RESIDUE TOLERANCES SET FOR DDT IN MILK.
Anonymous
Aerial Appl 5(5):8
May 1967 333.8 AE8
Agricultural products, DDT, Food contamination, Insecticide residues, Milk.

8537-69
DIELDRIN EFFECTS IN TWO GENERATIONS OF PENNED HEN PHEASANTS.
W L Baxter R L Linder R B Dahlgren
J Wildlife Manage 33(1):96-102 REF
Jan 1969 410 J827
Chlorinated hydrocarbons, Dieldrin, Fertility, Hatching, Insecticides, Mortality, Pheasants, Reproduction.

Effects of encapsulated dieldrin fed to penned hen pheasants (Phasianus colchicus) were studied through two generations. First-generation hens received 0, 2, 4 and 6 mg of dieldrin per week for 13 weeks. Hens which were offspring of these 0, 4 and 6 mg treated groups received 0 and 6 mg per week for 14 weeks. Effects of dieldrin were evaluated by measuring food consumption, weight, and egg production of hens, fertility and hatchability of eggs and survival, weight gain, and behavior of chicks.

8538-69
CHLORINATED INSECTICIDES IN THE BODY FAT OF PEOPLE IN THE UNITED STATES.
W E Dale G E Quinby
Science 142(3592):593-595 REF
01 Nov 1963 470 SC12
Benzene hexachloride, Chlorinated hydrocarbons, Chromatography, Dieldrin, DDT, Humans, Insecticide residues, Metabolites.

8539-69
CO-DISTILLATION CLEAN-UP FOR DDT RESIDUES ESTIMATION.
R S Dewan K C Gulati
Cur Sci 38(5):112-113
05 Mar 1969 475 SCI23
Chlorinated hydrocarbons, DDT, Insecticide residues.

8540-69
EFFECTS OF OIL AND SURFACTANT ON RESIDUES OF ATRAZINE IN FIELD GROWN CORN.
C D Ercegovich S M Raleigh D E H Frear
Northeast Weed Contr Conf Proc 22:488-490
03 Jan 1968 79.9 N814
Atrazine, Corn, Herbicide residues, Herbicides, Oils, Surface-active agents.

8541-69
TOLERANCES OF THREE SPECIES OF ANURAN AMPHIBIANS TO FIVE CHLORINATED HYDROCARBON INSECTICIDES.
D E Ferguson C C Gilbert
Miss Acad Sci J 13:135-138
1967 500 M697
Aldrin, Biological assay, Chlorine, Dieldrin, DDT, Endrin, Frogs, Hydrocarbons, Insecticides, Pesticide residues, Tolerances, Toxaphene.

8542-69
THE ABSORPTION AND ACCUMULATION OF ATRAZINE IN BARNYARDGRASS AT VARIOUS STAGES OF DEVELOPMENT.
E R Hill J Vengris
Northeast Weed Contr Conf Proc 22:497
03 Jan 1968 79.9 N814
Atrazine, Chromatography, Decomposition, Echinochloa crusgalli, Herbicide residues, Surface-active agents.

8543-69
DISTRIBUTION OF INSECTICIDES SPRAYED BY AIRPLANE ON AN IRRIGATED CORN PLOT.
E Hindin D S May G H Dunstan
Advances Chem Ser 60:132-145 REF
1966 381 AD93
Aerial spraying, Corn, Diazinon, DDT, Ethion, Insecticide residues, Irrigation.

8544-69
ANALYSIS OF POTATO FOR RESIDUE OF C-3126 AND OF SQUASH FOR RESIDUE OF PROMETRYNE.
T W Kerr C E Olney R S Bell
22:409-410
03 Jan 1968
Bromophenyl)-1-methoxy-1-methylurea, 3-(p-, Herbicide residues, Potatoes, Prometryne, Squash.

8545-69
PESTICIDE RESIDUES IN A MARINE POPULATION OF DOUBLE-CRESTED CORMORANTS.
C R Kury
J Wildlife Manage 33(1):91-95 REF
Jan 1969 410 J827
Birds, Chemical analysis, Chlorinated hydrocarbons, Pesticide residues, Reproduction.

The double-crested cormorant (Phalacrocorax auritus) was successful in its reproduction in Muscongus Bay, Maine, colonies in 1966 despite the fact that gulls and exposure inflicted a high mortality (71 percent) on eggs and young. The cormorant obtained little or no pesticide from Maine fish. Pesticides present in organs of the cormorant were obtained in some other area, possibly Florida where the bird winters. Pesticide residues seem not to have affected the reproductive success of the cormorant.

8546-69
RAPID CLEANUP OF DAIRY PRODUCTS FOR ANALYSIS OF CHLORINATED INSECTICIDE RESIDUE BY ELECTRON CAPTURE GAS CHROMATOGRAPHY.
B E Langlois A R Stemp B J Liska
J Agr Food Chem 12(3,MAY-JUN):243-245
May 1964 381 J8223
Chlorinated hydrocarbons, Chromatography, Dairy products, Dieldrin, DDT, Endrin, Food contamination, Insecticide residues, Lindane.

8547-69
IMPROVED EXTRACTION OF CHLORINATED HYDROCARBON PESTICIDES FROM ANIMAL TISSUES.
C F Li L Jr. Bradley T Richardson
Bull Environ Contam Toxicol 3(5,SEP-OCT):317-321
1968 RA1270.P35A1
Animal extracts, Animals, Chlorinated hydrocarbons, Dieldrin, DDT, Pesticide residues, Pesticides, Tissues.

8548-69
EFFECT OF FORAGE PROCESSING ON DALAPON RESIDUE.
D L Linscott R D Hagin M J Wright
Northeast Weed Contr Conf Proc 22:313
03 Jan 1968 79.9 N814
Alfalfa, Dalapon, Herbicide residues, Pesticide analysis, Tolerances.

8549-69
DDT. IN: ZWEIG, ANALYTICAL METHODS FOR PESTICIDES, PLANT GROWTH REGULATORS, AND FOOD ADDITIVES. VOL. II. INSECTICIDES. 395 Z9.
R Miskus
97-107, REF. ACADEMIC PRESS, NEW YORK
1964
Chlorinated hydrocarbons, DDT, Food contamination, Insecticide residues.

8550-69
THE TOXICITY AND SUBLETHAL EFFECTS OF P P'-DDT AND DIELDRIN TO AGLAIS URTICAE (L.) (LEPIDOPTERA: NYMPHALIDAE) AND CHORTHIPPUS BRUNNEUS (THUNBERG) (SALTATORIA:ACRIDIDAE).
F Moriarty
Ann Appl Biol 62(3):371-293 REF
Dec 1968 442.8 AN72
Acrididae, Dieldrin, DDT, Fertility, Morphology, Nymphalidae, Research, Toxicology.

8551-69
NOTE ON IMPROVED EXTRACTION FOR CHLORINATED PESTICIDE RESIDUES IN OYSTERS.
E A Robertson R M Tyo
Ass Offic Anal Chem J 49(3):683-684
Jun 1966 381 AS7
Chlorinated hydrocarbons, DDT, Food contamination, Heptachlor, Heptachlor epoxide, Insecticide residues, Oysters.

8552-69
DDT RESIDUES IN ADELIE PENGUINS AND A CRABEATER SEAL FROM ANTARCTICA.
W J L Sladen C M Menzie W L Reichel
Nature 210(5037):670-673 REF
14 May 1966 472 N21
Adipose tissue (animals), Antarctica, Birds, Chlorinated hydrocarbons, Chromatography, DDT, Insecticide residues, Liver, Penguins, TDE, Wildlife.

8553-69
SECRETION OF DDT BY LACTATING COWS FED THYROPROTEIN.
J W Stull W H Brown Whiting L M Sullivan M Milbrath J M Witt
J Dairy Sci 51(1):56-59 REF
Jan 1968 44.8 J822
Cattle, Chlorinated hydrocarbons, DDT, Food contamination, Injections, Milk, Thyroprotein.

Abstract: Milk and milk fat yield increased and body weight decreased in animals getting thyroprotein. The pesticide content of milk decreased to 2 ppm in controls, but only to 4 ppm in the thyroprotein-fed group.

8554-69
RESIDUES OF DDT AND IT'S DERIVATIVES IN THE FAT TISSUES OF SOME MARKET ANIMALS.
J Svoboda J Kubat
Brno Acta Univ Agr Fac Vet 36(2):233-240 REF
1967 SF604.B7
Adipose tissue (animals), Chlorinated hydrocarbons, DDT, Livestock, Marketing, Pesticide residues. Czech summary.

8555-69
PESTICIDE DRIFT. II. MIST-BLOWER VS. AERIAL APPLICATION OF SPRAYS.
G W Ware E J Apple W P Cahill P D Gerhardt K R Frost
J Econ Entomol 62(4):844-846
15 Aug 1969 421 J822
Aerial spraying, Air pollution, Alfalfa, Chlorinated hydrocarbons, Feed, Food contamination, Insecticide residues, Methoxychlor, Mist blowers, Spraying.

8556-69
RESIDUALS OF PESTICIDES IN CULTIVATED MUSHROOMS. (FR)
A William P Martens
Gac Vet 6:507-514 REF
1965 41.8 G112
Aldrin, Chlorinated hydrocarbons, Diazinon, Dimethoate, DDT, Fumigation, Lindane, Mushrooms, Organophosphorus compounds, Parathion, Pesticide application, Pesticide residues, Sulfotepp. English and German summaries.

8557-69
DDT REDUCES PHOTOSYNTHESIS BY MARINE PHYTOPLANKTON.
C F Wurster
Science 159(3822):1474-1475 REF
29 Mar 1968 470 SCI2
Chlorinated hydrocarbons, DDT, Ecology, Marine biology, Pesticide residues, Photosynthesis, Plankton, Water pollution.

TOXICOLOGY

8558-69
THE EFFECTS OF AN ACUTE DDT EXPOSURE ON THE SPONTANEOUS ELECTRICAL ACTIVITY OF GOLDFISH CEREBELLUM.
A E Aubin P H Johansen
Can J Zool 47(2):163-166
Mar 1969 470 C16D
Brain, DDT, Electrophysiology, Fish, Nervous system, Poisoning, Symptomatology.

8559-69
DYNAMICS OF ARSENIC CUMULATION IN HAIRLESS MICE AFTER PERORAL ADMINISTRATION.
V Bencko K Symon
J Hyg Epidemiol Microbiol Immunol 13(2):248-253 REF
1969 448.8 J826
Arsenic, Mice, Toxicology. English, French, German, and Spanish summaries.

8560-69
ALDRIN EPOXIDASE ACTIVITY OF RAT LIVER AND RAT LIVER MICROSOMES UNDER VARIOUS CONDITIONS OF STORAGE.
T Chan L C Terriere
Biochem Pharmacol 18(5):1061-1070 REF
May 1969 396.8 B52
Aldrin, Biochemistry, Chlorinated hydrocarbons, Enzymes, Freezing, Liver, Microsomes, Rats, Storage, Temperature.

8561-69
KINETICS OF CL-36 DDT IN WILD WATERFOWL.
D L Dindal
Diss Abstr Sect B 28(3):1267B
Sep 1967 Z5055.U49D53
Aquatic birds, DDT, Game birds, Radioactive tracers.

8562-69
INSECTICIDE-RESISTANT FISHES: A POTENTIAL HAZARD TO CONSUMERS.
D E Ferguson J L Ludke M T Finley G G Murphy
Miss Acad Sci J 13:138-140
1967 500 M697
Consumers, DDT, Endrin, Fish, Food poisoning, Insecticide residues, Insecticides, Metabolites, Resistance, Toxicology.

8563-69
EXAMINATION OF ANTIBODIES AND OF HEMAGGLUTINES, COMPLETE AND INCOMPLETE FOR THE DIAGNOSIS OF SALMONELLA TYPHIMURIUM INFECTIONS. (FR)
I Gavrila C Pascariu M Mihoc
Inst Pasteur Ann 115(1):79-83
Jul 1968 448.3 AN75
Antibodies, Diagnosis, Hemagglutination, Infectious diseases, Salmonella typhimurium. English summary.

8564-69
MALATHION-INDUCED TERATISMS IN THE DEVELOPING CHICK.
J Greenberg Q N LaHam
Can J Zool 47(4):539-542 REF
Jul 1969 470 C16D
Abnormalities, Chicks, Eggs, Embryology, Malathion, Mortality, Organophosphorus compounds, Poultry, Toxicology.

8565-69
RESPONSE OF ROBINS TO DDT AND METHOXYCHLOR.
L B Hunt R J Sacho
J Wildlife Manage 33(2):336-345 REF
Apr 1969 410 J827
Animal physiology, Birds, Chlorinated hydrocarbons, DDT, Insecticide residues, Insecticides, Methoxychlor, Mortality, Toxicology.

8566-69
BI-MODAL EFFECT OF PIPERONYL BUTOXIDE ON THE O- AND P-HYDROXYLATIONS OF BIPHENYL BY MOUSE LIVER MICROSOMES.
H Jaffe K Fujii H Guerin M Sengupta S S Epstein
Biochem Pharmacol 18(5):1045-1051 REF
May 1969 396.8 B52
Biokinetics, Biphenyl, Enzymes, Hydroxyl, Insecticide synergists, Liver, Mice, Microsomes, Piperonyl butoxide.

8567-69
FISH LOSSES AFTER FOREST SPRAYINGS WITH INSECTICIDES IN NEW BRUNSWICK, 1952-62, AS SHOWN BY CAGED SPECIMENS AND OTHER OBSERVATIONS.
C J Kerswill H E Edwards
24(4):709-729, MAP REF
Apr 1967
DDT, Fish, Forests, Losses, Malathion, Petroleum, Phosphamidon, Spraying, Streams, TDE, Water pollution.

Abstract included.

8568-69
COMPARISON OF ASSAY METHODS FOR STUDYING O,O-DIETHYL, O-P-NITROPHENYL PHOSPHATE (PARAOXON) DETOXIFICATION IN VITRO.
R R Lauwerys S D Murphy
Biochem Pharmacol 18(4):789-800 REF
Apr 1969 396.8 B52
Anticholinesterases, Biokinetics, Biological assay, Manometry, Paraoxon, Spectrophotometry, Toxicology.

8569-69
MODE OF ACTION OF INSECTICIDE SYNERGISTS.
R L Metcalf
Annu Rev Entomol 12:229-256 REF
1967 421 AN72
Bibliography, Carbamates, DDT, Insect biochemistry, Insecticide synergists, Organophosphorus compounds, Pyrethrum, Toxicology.

8570-69
DEGRADATION OF PARATHION IN THE RAT.
T Nakatsugawa N M Tolman P A Dahm
Biochem Pharmacol 18(5):1103-1114 REF
May 1969 396.8 B52
Biochemistry, Degradation, Diethyl phosphorothioic acid, Enzymes, Liver, Metabolism, Microsomes, Organophosphorus compounds, Paraoxon, Parathion, Rats, Sulfur, Toxicology.

8571-69
BIOCHEMICAL CHANGES IN RAT LIVER IN RESPONSE TO TREATMENT WITH DRUGS AND OTHER AGENTS--II. EFFECTS OF HALOTHANE, DDT, OTHER CHLORINATED HYDROCARBONS, THIOACETAMIDE, DIMETHYLNITROSAMINE AND ETHIONINE.
D S Platt B L Cockrill
Biochem Pharmacol 18(2):445-457 REF
Feb 1969 396.8 B52
Biochemistry, Bromo-2-chloro-1,1,1-trifluoroethane, 2-, Chlorinated hydrocarbons, DDT, Drug therapy, Enzymes, Ethionine, Liver, Metabolism, Microsomes, Nitrosodimethylamine, N-, Rats, Thioacetamide, Toxicology, Toxins.

8572-69
STRUCTURE-ACTIVITY AND METABOLISM STUDIES ON ORGANOPHOSPHATE TERATOGENS AND THEIR ALLEVIATING AGENTS IN DEVELOPING HEN EGGS WITH SPECIAL EMPHASIS ON BIDRIN.
J-C Roger D G Upshall J E Casida
Biochem Pharmacol 18(2):373-392 REF
Feb 1969 396.8 B52
Abnormalities, Chickens, Eggs, Enzymes, Hydroxy-N,N-dimethyl-cis-crotonamide dimethyl phosphate, 3 m, Nicotinamide, Nicotinic acid, Organophosphorus compounds, Pesticide residues, Physiology, Pyridine nucleotides, Toxicology.

8573-69
DISTRIBUTION OF PESTICIDE RESIDUES IN HUMAN BODY TISSUES FROM MONTGOMERY COUNTY, OHIO. IN: ORGANIC PESTICIDES IN THE ENVIRONMENT; SYMPOSIUM...AMERICAN CHEMICAL SOCIETY ATLANTIC CITY, N.J., SEPT. 13-15, 1965. ROBERT J. GOULD, ED.
M L Schafer J E Campbell
Advances Chem Ser 60:89-98
1966 381 AD93
Adipose tissue (animals), Chlorinated hydrocarbons, Dieldrin, DDT, Humans, Insecticide residues, Tissues.

8574-69
HAZARDS OF INSECTICIDES AND RESIDUE PROBLEMS IN RICE CULTIVATION.
K Ueda
Baltimore, John Hopkins Press. 351-366 REF
1967 SB608.R5S9
Animals, Chlorinated hydrocarbons, Fish, Humans, Insecticides, Organophosphorus compounds, Parathion, Poisoning, Residues, Rice.

8575-69
ROLE OF INTESTINAL MICROFLORA IN THE DEGRADATION OF DDT BY RAINBOW TROUT (SALMO GAIRDNERI).
G Wedemeyer
Life Sci 7(3,PT 1):219-223 REF
01 Feb 1968 442.8 L62
DDT, Insecticide residues, Intestines, Metabolism, Metabolites, Microorganisms, Trout.

8576-69
RESPIRATORY EXPOSURE OF DAIRY ANIMALS TO PESTICIDES. IN: ORGANIC PESTICIDES IN THE ENVIRONMENT; SYMPOSIUM...AMERICAN CHEMICAL SOCIETY, ATLANTIC CITY, N.J., SEPT. 13-15, 1965. ROBERT J. GOULD, ED.
J M Witt F M Whiting W H Brown
Advances Chem Ser 60:99-109, REF.
1966 381 AD93
Animal respiration, Cattle, Chlorinated hydrocarbons, DDT, Insecticide residues, Milk fat.

PLANT PHYSIOLOGY & BIOCHEMISTRY

8577-69
EXPERIMENTAL RESEARCH CONCERNING THE CIRCUMSTANCES AND MODALITIES OF THE RETURN OF INFLORESCENCE TOWARDS THE VEGETATIVE STAGE IN SALVIA GLUTINOSA L.
P Chouard J Pawlowski
Soc Franc Physiol Veg Bull 13(2)203-213
May 1967 451 SO193
Photoperiodism, Plant biochemistry, Plant physiology, Research, Salvia glutinosa. English summary.

8578-69
EFFECT OF DICHLOBENIL ON ANTHOCYANIN DEVELOPMENT IN VACCINIUM MACROCARPON (VAR. EARLY BLACK).
R M Devlin I E Demoranville
Northeast Weed Contr Conf Proc 22:493-496
03 Jan 1968 79.9 N814
Anthocyanins, Cranberries, Dichlobenil, Herbicides, Metabolism.

8579-69
EFFECT OF CP31393 ON AUXIN-INDUCED GROWTH.
W B Duke
Northeast Weed Contr Conf Proc 22:504-511
03 Jan 1968 79.9 N814
Chloro-N-isopropylacetanilide, 2-, Cucumbers, D, 2,4-, Plant hormones, Plant regulators.

8580-69
EXPRESSION OF SEXUAL CHARACTERISTICS IN ANNUAL MERCURIALS. (FR)
B Durand
Soc Franc Physiol Veg Bull 13(2):195-202 REF
May 1967 451 SO193
Gibberellins, Kinetin, Mercurialis, Plant grafting, Plant hormones, Plant physiology, Plant regulators, Plant reproduction. English summary.

8581-69
MODE OF ACTION, TRANSLOCATION, OXIDATION, AND DECOMPOSITION OF INSECTICIDES WITHIN THE RICE PLANTS.
H Fukuda
Baltimore, John Hopkins Press. 305-316 REF
1967 SB608.R5S9
Chemical control (insects), Chlorinated hydrocarbons, Decomposition, Insecticide residual activity, Organophosphorus compounds, Oxidation, Plant translocation, Rice.

8582-69
A STUDY OF THE ACTIVITY OF DIPHENAMID AND THREE ANALOGS. (ABSTRACT).
W A Gentner
Northeast Weed Contr Conf Proc 22:499
03 Jan 1968 79.9 N814
Diphenamid, Diphenylacetamide, 2,2-, Diphenylacetic acid, Herbicides, Lambsquarters, Methyldiphenylacetamide, N-, Pigweed, Rape, Tomatoes.

8583-69
THE CONTRACTION OF THE ROOTS OF ARUM ITALICUM. (FR)
A Lamant R Heller
Soc Franc Physiol Veg Bull 13(2):179-193 REF
May 1967 451 SO193
Arum italicum, Osmotic pressure, Parenchyma tissue, Plant biochemistry, Plant hormones, Plant physiology, Plasmolysis, Roots. English summary.

8584-69
A STUDY OF THE DEVELOPMENT OF THE GIBERELLIN CONTENT OF EMBRYOS OF EVONYMUS EUROPAEUS L., IN THE COURSE OF THE STRATIFICATION OF SEEDS. (FR)
J Monin
Soc Franc Physiol Veg Bull 13(2):171-177 REF
May 1967 451 SO193
Biological assay, Chromatography, Euonymus europaeus, Gibberellins, Plant embryos, Plant physiology, Seeds. English summary

8585-69
SYSTEMIC INSECTICIDES IN TREES.
D M Norris
Annu Rev Entomol 12:127-148 REF
1967 421 AN72
Bibliography, Phytotoxicity, Plant metabolism, Plant physiology, Systemic insecticides, Trees.

8586-69
BIOCHEMICAL STUDIES ON BAKANAE FUNGUS. PART 74. SYNTHESIS OF SUBSTANCES RELATED TO GIBBERELLINS. PART XVI AN ALTERNATE SYNTHETIC ROUTE TO A GIBBANE-10-CARBOXYLIC ACID.
T Ogawa K Mori M Matsui Y Sumiki
Agr Biol Chem 31(10):1242-1243
Oct 1967 385 AG8B
Chemical structure, Chromatography, Fungi, Gibberellins, Synthesis.

8587-69
INFLUENCE OF 2,4-D AND STREPTOMYCIN ON THE NITROGEN METABOLISM OF BUCKWHEAT SEEDLINGS AND ITS RELATION TO THE ANTHOCYANIN BIOSYNTHESIS. (ES)
M Otter
Akad Nauk Est Ssr Izv Ser Biol 16(2):128-135 REF
1967 442.9 AK18
Anthocyanins, D, 2,4-, Herbicides, Nitrogen, Plant metabolism, Streptomycin, Wheat. English and Russian abstracts.

8588-69
PLANT TREATMENT IN RELATION TO THE RHIZOSPHERE EFFECT. III. FOLIAR APPLICATION OF CERTAIN TRACE ELEMENTS AND METALLIC CHELATES IN RELATION TO THE RHIZOSPHERE MICROFLORA OF RICE (ORYZA SATIVA L.).
T K R Reddy
Plant Soil 29(1):114-118 REF
Aug 1968 450 P696
Boron, Chelates, Copper, Exudates, Foliar application, Iron, Manganese, Molybdenum, Plant biochemistry, Rhizosphere, Rice, Roots, Soil fungi, Zinc.

8589-69
THE ELONGATION OF STAMEN FILAMENTS IN GRAMINACEAE. (FR)
J Schaeverbeke
Soc Franc Physiol Veg Bull 13(2):153-170 REF
May 1967 451 SO193
Gibberellins, Grasses, Hydrolysis, Plant cytology, Plant physiology, Stamens, Sucrose, Temperature, Thermoperiodism. English summary.

8590-69
EFFECT OF SEVERAL HERBICIDES ON FLOWER PRODUCTION, GROWTH AND WEED CONTROL IN MARIGOLDS.
O E Schubert
Northeast Weed Contr Conf Proc 22:264-271
03 Jan 1968 79.9 N814
Chemical control (weeds), Formulations, Pesticide mixtures, Plant budding, Plant physiology, Tagetes.

8591-69
TRANSLOCATION PATTERNS OF SIMAZINE IN POTAMOGETON CRISPUS L.
D L Sutton S W Bingham
Northeast Weed Contr Conf Proc 22:357-361
03 Jan 1968 79.9 N814
Aquatic plants, Metabolites, Plant translocation, Potamogeton crispus, Simazine.

8592-69
STIMULATION OF PLANT GROWTH. PATENT 3,454,391.
B Von Schmeling M Kulka
Us Patent Office Offic Gaz 864(2):522
08 Jul 1969 156.65 OF2

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A bloating disease of adults of the apple maggot.
8142

ABIES CONCOLOR
A nucleopolyhedrosis virus in populations of the Douglas-fir tussock moth, Hemerocampa pseudotsugata, in California.
8335

ABNORMALITIES
Malathion-induced teratisms in the developing chick.
8564

Structure-activity and metabolism studies on organophosphate teratogens and their alleviating agents in developing hen eggs with special emphasis on Bidrin.
8572

ABORTION
Bovine vibriosis.
8478

ACANTHOBRAHMAEA
The systematic position of Brahmaea europaea Hartig (Lepidoptera Brahmaeidae).
8053

ACARINA
Investigation into the morphology, taxonomy, and biology of the Podapolipidae (Acarina, Tarsonemini) (Under special consideration, the parallel evolution of the genera feutarsopolipus and Dorsipes with their hosts (Coleopt., Carabidae)).
8173

The natural enemies of the chaff scale, Parlatoria pergandii Comstock, in Israel.
8344

ACARUS SIRO
Effects of introduced irradiated male grain mites on population development.
8091

Feeding and reproduction of the grain and the mushroom mite on wood-inhabiting hymenomycetes.
8192

ACCIDENT PREVENTION
Controlling wasps.
8071

ACER PSEUDOPLATANUS
Occurrence of Cryptostroma corticale in Northwestern United States.
8294

ACHETA DOMESTICUS
On the phosphagen isolated from eggs of insects.
8108

Carbohydrates in the haemolymph of the cricket, Acheta domesticus.
8210

ACHROMOBACTERACEAE
A boll rot of cotton caused by Erwinia aroideae.
8298

ACID PHOSPHATASE
Acid phosphatase activity in the digestive system of the desert locust Schistocerca gregaria (Forskal).
8166

ACIDS
Studies on the effect of sulfuric-fuming nitric acid treatment on the analytical characteristics of toxaphene.
8603

ACRIDIDAE
A new genus and species of the family Lentulidae (Orthoptera: Acridoidea).
8028

Food selection by grasshoppers.
8164

Acid phosphatase activity in the digestive system of the desert locust Schistocerca gregaria (Forskal).
8166

The toxicity and sublethal effects of p p'-DDT and dieldrin to Aglais urticae (L.) (Lepidoptera: Nymphalidae) and Chorthippus brunneus (Thunberg) (Saltatoria:Acrididae).
8550

ACRIFLAVINE
Drug resistance in Eimeria tenella. IX. Effect of acriflavine-mediated reversion on reacquisition of resistance to amprolium.
8470

ACTINOMYCIN D
The polypeptides of adenovirus. III. Synthesis in infected cells.
8487

ADENOCARCINOMA
Site difference for solid tumor growth.
8455

ADENOVIRUSES
The polypeptides of adenovirus. III. Synthesis in infected cells.
8487

ADIPOSE TISSUE (ANIMALS)
DDT residues in Adelie penguins and a crabeater seal from Antarctica.
8552

Residues of DDT and it's derivatives in the fat tissues of some market animals.
8554

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8573

ADVERTISING
The Gold Crest Pest Control Program for the pest control industry.
8614

AEDES
Activity of repellents employed in aerosol form.
8110

AEDES AEGYPTI
The protein nature of the substance inducing female monogamy in Aedes aegypti. despommier, d d.
8118

On the positional specificity of phospholipase A of certain species of mosquitoes.
8172

AEDES ALBOPICTUS
Syncytia formation of mosquito cell cultures mediated by type 2 dengue virus.
8480

AEDES VEXANS
Mosquito control in and around homes and farmsteads.
8274

AERIAL SPRAYING
Distribution of insecticides sprayed by airplane on an irrigated corn plot. in: Organic pesticides in the environment; symposium...American Chemical Society, Atlantic City, N.J., Sept. 13-15, 1965. robert J. gould, ed.
8350

Some ecological benefits of woody plant control with herbicides.
8396

Pesticide drift. I. High-clearance vs. aerial application of sprays.
8533

Distribution of insecticides sprayed by airplane on an irrigated corn plot.
8543

Pesticide drift. II. Mist-blower vs. aerial application of sprays.
8555

AEROSOLS
Activity of repellents employed in aerosol form.
8110

AFLATOXIN
Collaborative study on the determination of aflatoxins in cottonseed products.
8520

Quantitative method for the estimation of aflatoxins in peanuts and peanut products.
8605

Analysis of cocoa beans for aflatoxins.
8608

AGAR
Contribution to the study of the antigenic structure of some representatives of the Aspergillus family using specific precipitation in agar.
8475

On the common protein determinants of Enterobacteriaceae.
8594

AGARISTIDAE
Discovery of the female of Pemphigostola synemonistis Strand, 1909 (Lepidoptera Agaristidae).
8064

AGING
Age structure of insect populations of medical importance.
8107

Does cottontail sex or age affect incidence of Taenia pisiformis cysticerci.
8511

AGRICULTURAL ENGINEERING
Broadcast spraying.
8612

AGRICULTURAL LEGISLATION
The control of technology. solandt, o m.
8615

AGRICULTURAL POLICIES
Some ecological benefits of woody plant control with herbicides.
8395

The control of technology. solandt, o m.
8615

AGRICULTURAL PRODUCTS
Residue tolerances set for DDT in milk.
8536

AGROPYRON REPENS
Quackgrass control on heavy clay soils.
8408

AIR POLLUTION
Distribution of insecticides sprayed by airplane on an irrigated corn plot. in: Organic pesticides in the environment; symposium...American Chemical Society, Atlantic City, N.J., Sept. 13-15, 1965. robert J. gould, ed.
8350

Pesticide drift. I. High-clearance vs. aerial application of sprays.
8533

Pesticide drift. II. Mist-blower vs. aerial application of sprays.
8555

AIRBORNE POLLEN
The air pollution menace of ragweed pollen.
8526

ALCOHOLS
The incorporation of amino-alcohols into the phospholipids of the adult housefly, Musca domestica.
8090

ALDRIN
Dieldrin resistance in Lucilia sericata (Meig) from Co. Dublin, Eire.
8188

Forest entomology.
8328

Investigations on the biology and control of Melolontha melolontha in hazelnut plantations.
8377

Seed dressings and game birds.
8444

Identification and measurement of chlorinated organic pesticides in water by electron-capture gas chromatography.
8527

Identification and measurement of chlorinated organic pesticides in water by electron-capture gas chromatography.
8528

Determination of pesticides in water by microcoulometric gas chromatography after liquid-liquid extraction.
8530

Pesticide residues in food.
8535

ALEYRODIDAE

Tolerances of three species of anuran amphibians to five chlorinated hydrocarbon insecticides. 8541

Residuals of pesticides in cultivated mushrooms. 8556

Aldrin epoxidase activity of rat liver and rat liver microsomes under various conditions of storage. 8560

Shell's versatile products Aldrite 4, Dieldrite 1.5 Vaponite 2 formulated for all P.C.O. business. 8613

ALEYRODIDAE
Three new species of Aleyrodidae from the Sudan (Hemiptera-Homoptera). 8035

Double your cotton yield by spraying. 8324

ALFALFA
Pollen gathering of honey bees reduced by pesticide sprays. 8205

Effect of paraquat in the establishment of alfalfa. 8392

A three year summary of weed control for establishment of legume seedings. 8397

Control of yellow rocket (Barbarea vulgaris) and other broadleaf weeds associated with established alfalfa. 8402

Quackgrass control on heavy clay soils. 8408

Control of annual weeds in spring-seeded alfalfa with preplant, preemergence, and postemergence herbicides. 8413

Effectiveness of triazines and EPTC for weed control in seedling legumes. 8422

Effect of forage processing on dalapon residue. 8548

Pesticide drift. II. Mist-blower vs. aerial application of sprays. 8555

ALLELES
Chromatographic comparison of pteridine levels in four white locus alleles of Drosophila melanogaster. 8218

Allelic complementation and genetic fine structure at the rudimentary locus of Drosophila melanogaster. 8222

ALTERNARIA SOLANI
Save your potato crop from fungal and bacterial diseases. 8286

ALTERNARIA TENUIS
Alternaria seed infection of wheat. 8283

ALTERNARIA TRITICINA
Alternaria seed infection of wheat. 8283

AMBROSIA
Report on the current and planned local noxious weed control programs in New Jersey. 8414

The air pollution menace of ragweed pollen. 8526

AMERICAN FOULBROOD
Selection for American foulbrood resistance in larval honey bees. 8134

AMINES
Grain aphids in New brunswick. IV. Effects of malathion and 2,4-D amine on aphid populations and on yields of oats and barley. 8320

AMINO ACIDS
Nutritional studies of the rice stem borer Chilo suppressalis Walker. 8140

Gut absorption. 8207

The influence of dietary methionine on the amino acid pool of Hymenolepis diminuta in the rat's intestine. 8498

Isolation of the novel regulatory mutants of the tryptophan biosynthetic system in Escherichia coli. 8602

AMITROLE
Control and elimination of noxious weeds. 8404

AMMONIUM NITRATE
Effect of organic and inorganic nitrogen on nematode populations on turf. 8383

AMPHIBIANS
Studies on the behaviour of Lucilia illustris Meigen as a parasite of vertebrates under experimental conditions. 8103

AMPROLIUM
Drug resistance in Eimeria tenella. IX. Effect of acriflavine-mediated reversion on reacquisition of resistance to amprolium. 8470

ANASTATUS UROMERI
Notes on some new or little known Chalcididae (Hym.). 8031

ANIMAL DISEASES
Method of treating influenza viral infection. patent 3,459,861. 8445

Methods of treating coccidiosis with 4-sulfanilamido-2,6-dimethoxypyrimidine. Patent 3,458,631. 8448

Site difference for solid tumor growth. 8455

Relative hypertrophy of the mouse's right kidney. 8460

Preparation of nitroimidazole carbamates. patent 3,459,764. 8463

Diseases of mink. 8466

ANIMAL ECOLOGY
Intrafloral ecology. 8080

ANIMAL EXTRACTS
Improved extraction of chlorinated hydrocarbon pesticides from animal tissues. 8547

ANIMAL HUSBANDRY
Diseases of mink. 8466

ANIMAL NUTRITION
The development of lesions in vitamin A-deficient adult fowl. 8458

Diseases of mink. 8466

Effect of biotin deficiency on food intake and body and organ weights of male albino rats. 8473

ANIMAL PHYSIOLOGY
Relative hypertrophy of the mouse's right kidney. 8460

The demonstration of a single species of an unclassified bacterium in five cases of bovine lymphosarcoma. 8469

Evidence for conversion of DDT to TDE in rat liver: I. Liver/body fat ratios of TDE. 8472

Effect of biotin deficiency on food intake and body and organ weights of male albino rats. 8473

Response of robins to DDT and methoxychlor. 8565

ANIMAL RESPIRATION
Respiratory exposure of dairy animals to pesticides. in: Organic pesticides in the environment; symposium...American Chemical Society, Atlantic City, N.J., Sept. 13-15, 1965. robert J. gould, ed. 8576

ANIMALS
Improved extraction of chlorinated hydrocarbon pesticides from animal tissues. 8547

Hazards of insecticides and residue problems in rice cultivation. 8574

ANNELIDA
Morphological and histochemical studies on the larval stages of Metastrongylus spp. (lungworms of swine) in the earthworm intermediate host, Eisenia foetida, Savigny 1826. 8506

ANOBIIDAE
Notes about Anobiidae. XXXI. Genera of the Dorcatominae of the Ethiopian fauna. 8029

ANOPHELES
Practical importance of resistance to insecticides in Anopheles. 8099

Age structure of insect populations of medical importance. 8107

Anopheles moucheti in Cameroon. 8163

Practical importance of insecticide resistance for malaria eradication in tropical Africa. 8273

Entomological factors in persisting transmission of malaria in eradication programs. 8276

ANOPHELES ALBIMANUS
Reciprocal fertility among five populations of Anopheles albimanus. 8236

ANOPHELES FUNESTUS
Technical problems of malaria eradication in Africa. 8275

ANOPHELES GAMBIAE
Technical problems of malaria eradication in Africa. 8275

ANOPHELES QUADRIMACULATUS
P32-labeling of common malaria mosquitoes: assimilation by larvae and retention and transfer during mating. 8193

ANOPHELES STEPHENSI
On the positional specificity of phospholipase A of certain species of mosquitoes. 8172

ANTARCTICA
DDT residues in Adelie penguins and a crabeater seal from Antarctica. 8552

ANTENNAE
The role of the nervous system in insect morphogenesis and regeneration. 8168

ANTHELMINTICS
Control of helminthiasis with a series of 2-(omega-(2-thienyl)alkyl)-, 2-(2-(2-thienyl)vinyl) and the corresponding isomeric 3-thienyl derivatives of thiazoline and 5,6-dihydro-4H-1,3-thiazine. Patent 3,458,633. 8447

Anthelmintic compositions and methods employing 2-(2'-oxazolin-2'-yl)-benzimidazoles. Patent 3,457,351. 8497

Activity of parbendazole upon Trichinella spiralis in mice. 8508

ANTHERAEA POLYPHEMUS
The role of the nervous system in insect morphogenesis and regeneration. 8168

ANTHOCORIDAE
The possible control of rice stem borers by the use on natural enemies.
8379

ANTHOCYANINS
Effect of dichlobenil on anthocyanin development in Vaccinium macrocarpon (var. early black).
8578

Influence of 2,4-D and streptomycin on the nitrogen metabolism of buckwheat seedlings and its relation to the anthocyanin biosynthesis.
8587

ANTHOMYIIDAE
Synecological studies on flies (Anthomyiini) in cultivated fields. (A contribution to agraroecology).
8190

ANTHONOMUS GRANDIS
Biology of Bracon mellitor, a parasite of the boll weevil.
8070

Alkyl 2-methylpropenyl ketoxime carbamates. Patent 3,454,642.
8117

Influence of light on diapause in the boll weevil. Ii. Dependence of diapause response on narrow bands of visible radiation and a broad band of infrared radiation used to extend the photoperiod.
8128

The residual of N,N,N',N'-tetramethylppiperidinophosphonic diamide after injection, tarsal contact, and topical application to the boll weevil.
8202

Control of the boll weevil by mechanically destroying fallen infested cotton squares.
8331

ANTIBIOTICS
A bloating disease of adults of the apple maggot.
8142

Compounds tested for control of Nosema in honey bees.
8160

Control of bacterial spot of peach in New Jersey.
8288

The ineffectiveness of cycloheximide and phytoactin as chemical controls of the blister rust disease.
8301

Antibiotics 460 and methods for their production. Patent 3,454,696.
8485

Antibiotics 15 and methods for their production. Patent 3,348,626.
8486

ANTIBODIES
Fluorescent antibody staining of tobacco mosaic virus antigen in tobacco mesophyll protoplasts.
8307

Study of the plasmocytic reaction in experimental brucellosis infection.
8451

Fluorescent antibody staining of four Babesia species.
8467

Effect of heterologous antibody on Haemonchus contortus development in vitro.
8500

Chitinase activity in developmental stages of Ascaris suum and its inhibition by antibody.
8504

Serological and morphological studies on the inter- and intraspecific differences of the plant-parasitic nematodes Heterodera and Ditylenchus.
8514

Examination of antibodies and of hemagglutines, complete and incomplete for the diagnosis of Salmonella typhimurium infections.
8563

ANTICHOLINESTERASES
Comparison of assay methods for studying O,O-diethyl, O-p-nitrophenyl phosphate (paraoxon) detoxification in vitro.
8568

ANTIGENS
Fluorescent antibody staining of tobacco mosaic virus antigen in tobacco mesophyll protoplasts.
8307

Semliki Forest virus temperature-sensitive mutants. isolation and characterization.
8318

Immunologic reactions in animals with tumors.
8446

Demonstration with indirect immunofluorescence of a cellular epsilon-antigen of the mouse.
8459

Contribution to the study of the antigenic structure of some representatives of the Aspergillus family using specific precipitation in agar.
8475

Studies on mouse leukemia viruses. I. Isolation and characterization of a group-specific antigen.
8477

Precise identification of the strain called Shigella paradysenteriae Y6R or Flexneri Y6R (Burnet).
8483

Purification and immunochemical analysis of a genus-specific cuticular antigen of Toxocara canis.
8502

The antigenic composition of various preparations of fertile hydatic cysts analyzed by immunodiffusion and immunoelectrophoresis.
8509

Serological and morphological studies on the inter- and intraspecific differences of the plant-parasitic nematodes Heterodera and Ditylenchus.
8514

APHELENCHOIDES
Plant-parasitic nematodes in marginal Pinus ponderosa stands in central New Mexico.
8390

APHELINIDAE
The comparative biologies of two hymenopterous parasites of the chaff scale, Parlatoria pergandii.
8123

Impact of pathogens, parasites, and predators on aphids.
8126

The natural enemies of the chaff scale, Parlatoria pergandii Comstock, in Israel.
8344

APHELOCHEIRUS AESTIVALIS
The labium of Aphelocheirus aestivalis F. as compared with that of typical Naucoridae (Heteroptera).
8169

APHIDIDAE
Cytotaxonomy of Aphididae.
8051

Notes on some species of Cavariella Del Guercio, 1911 (Homoptera: Aphidoidea).
8059

Impact of pathogens, parasites, and predators on aphids.
8126

Entomophthora pyriformis sp. n. a fungus parasite of the Aphididae.
8204

Mechanical and physiological defense reactions of an aphid species (Aphididae) against ichneumonid wasps (Hymenoptera).
8213

Evidence of transovarial passage of the sowthistle yellow vein virus in the aphid Hyperomyzus lactucae.
8317

Grain aphids in New brunswick. IV. Effects of malathion and 2,4-D amine on aphid populations and on yields of oats and barley.
8320

Double your cotton yield by spraying.
8324

On the rating of plants as sources of polyphagous species of plant lice (Homoptera: Aphididae).
8351

APHIDIINAE
A new genus and several new species of aphid parasites (Hym. Aphidiidae).
8048

Impact of pathogens, parasites, and predators on aphids.
8126

APHIDIUS SMITHI
Phenotypic polymorphism in Aphidius smithi Sharma Suhba Rao (Hymenoptera, Aphidiidae).
8247

APHYTIS
The comparative biologies of two hymenopterous parasites of the chaff scale, Parlatoria pergandii.
8123

Predators and parasites of Aphytis (Hym., Aphelinidae).
8206

New perspectives in the control of Aonidiella aurantii of Morocco (Hom., Diaspididae).
8327

The natural enemies of the chaff scale, Parlatoria pergandii Comstock, in Israel.
8344

APICULTURE
Pesticide usage in relation to beekeeping.
8075

APIS MELLIFERA
Honey bee pathology.
8079

Effects of increased pollinator levels on production of the highbush blueberry, Vaccinium corymbosum.
8089

Selection for American foulbrood resistance in larval honey bees.
8134

Compounds tested for control of Nosema in honey bees.
8160

Control of European foulbrood disease of the honey bee.
8189

Pollen gathering of honey bees reduced by pesticide sprays.
8205

APPLES
Sex attraction and mating of lesser peach tree borer moths.
8214

Apple chalcid, Torymus varians (Wlk.), (Hymenoptera: Torymidae), in Quebec.
8373

Releases of unsexed gamma-irradiated codling moths for population suppression.
8378

Persistence of pesticides in orchards and orchard soils. in; Organic pesticides in the environment; symposium...American Chemical Society, Atlantic City, N.J., Sept. 13-is, 1965. robert J. gould, ed.
8532

APRICOTS
Pathological changes in the trunk of Prunus armeniaca L. and their relationship to the premature death of apricots. I. Investigations in the area of wood structure.
8308

AQUATIC BIRDS
Kinetics of Cl-36 DDT in wild waterfowl.
8561

AQUATIC PLANTS
Translocation patterns of simazine in Potamogeton crispus l.
8591

AQUATIC WEEDS
A variation of plastic enclosure for field-testing aquatic herbicides.
8410

ARANEIDA

Regulatory activities of the Connecticut State Board of Pesticide Control.
8529

Administration of aquatic nuisance control in Ontario.
8534

ARANEIDA
Impact of parasites, predators, and diseases on rice pests.
8380

ARANEUS DIADEMATUS
Regulation of external respiration by the book-lung spiracles of the spiders, Araneus diadematus Clerck and A. marmoreus Clerck.
8176

ARANEUS MARMOREUS
Regulation of external respiration by the book-lung spiracles of the spiders, Araneus diadematus Clerck and A. marmoreus Clerck.
8176

ARBOVIRUSES
Trans-stadial and transovarial development of disease agents in arthropods.
8095

Semliki Forest virus temperature-sensitive mutants. isolation and characterization.
8318

Syncytia formation of mosquito cell cultures mediated by type 2 dengue virus.
8480

ARCTIIDAE
An epizootic disease of Tarichium (Entomophthoraceae) on the larvae of Ocnogyna parasita Hbn. (Lepidoptera, Arctiidae).
8215

ARSENIC
Dynamics of arsenic cumulation in hairless mice after peroral administration.
8559

ARTHROPODA
Ecological research on arthropods of a sandy beach of the Mediterranean. II. The migrations of Talitrus saltator (Montagu) (Crustacea-Amphipoda).
8122

Persistence of resistant populations after the relaxation of the selection pressure.
8144

Host-parasite interactions and the feeding of blood-sucking arthropods.
8490

ARUM ITALICUM
The contraction of the roots of Arum italicum.
8583

ASCARIS
Preventing and controlling internal parasites of hogs.
8510

ASCARIS LUMBRICOIDES
Purification and immunochemical analysis of a genus-specific cuticular antigen of Toxocara canis.
8502

ASCARIS LUMBRICOIDES SUUM
Purification and immunochemical analysis of a genus-specific cuticular antigen of Toxocara canis.
8502

Quantitative aspects of lipid utilization during embryogenesis of Ascaris suum eggs.
8503

Chitinase activity in developmental stages of Ascaris suum and its inhibition by antibody.
8504

Binding of 60-co-vitamin B12 by Ascaris suum intestine.
8517

ASPERGILLUS
Secondary effects of entomophagous fungi on humans and vertebrates: Actual cases.
8471

Contribution to the study of the antigenic structure of some representatives of the Aspergillus family using specific precipitation in agar.
8475

ASPIDIOTUS PERNICIOSUS
Note on the efficiency of Prospaltella perniciosi Tow. in France.
8326

Activity of the working groups: Working group on San Jose Scale .
8359

Information gathered in the course of nine years of work with Prospaltella perniciosi Tow., parasite of the San Jose scale (Quadraspidiotus perniciosus Comst.).
8360

Some aspects of biological control of the San Jose scale (Quadraspidiotus perniciosus Comst.) with the help of the aphelinid Prospaltella perniciosi Tow.
8361

ATRAZINE
Control and elimination of noxious weeds.
8404

Preemergence and postemergence yellow foxtail control in corn.
8429

The effects of phytobland oils and spray volume on postemergence activity of atrazine and combinations of atrazine with linuron in corn.
8440

Effects of oil and surfactant on residues of atrazine in field grown corn.
8540

The absorption and accumulation of atrazine in barnyardgrass at various stages of development.
8542

ATTAGENUS MEGATOMA
Gardona as a mothproofer of woolen fabric.
8518

ATTRACTANTS
Assessment of the field population of the rice stem borer moth by light trap.
8040

Pesticide usage in relation to beekeeping.
8075

A continously recording flight mill for investigating the effect of volatile substances on the flight of feathered insects.
8087

Color and natural products attracting the adult sugarbeet root maggot in Southcentral Idaho.
8197

Varietal resistance to rice stem borers in Japan.
8362

AUTOPSIES
The demonstration of a single species of an unclassified bacterium in five cases of bovine lymphosarcoma.
8469

AUTORADIOGRAPHY
Association of somatic cell lesions with 3-bromodeoxyoridine incorporation in ONA of Drosophila.
8263

Autoradiographic study of the effect of Newcastle disease virus on the mitotic cycle of cells.
8456

AVITAMINOSIS
The development of lesions in vitamin A-deficient adult fowl.
8458

AZINPHOSMETHYL
Control of the boll weevil by mechanically destroying fallen infested cotton squares.
8331

Fifty years of research on the pink bollworm in the United States.
8365

Releases of unsexed gamma-irradiated codling moths for population suppression.
8378

AZODRIN
Azodrin for corn earworm and fall armyworm control and its persistance in sweet corn.
8069

BABESIA
Fluorescent antibody staining of four Babesia species.
8467

BACILLUS
A boll rot of cotton caused by Erwinia aroideae.
8298

BACILLUS LARVAE
Selection for American foulbrood resistance in larval honey bees.
8134

BACILLUS THURINGIENSIS
The influence of Bacillus thuringiensis toxins on various physiological characters of Drosophila adults.
8104

A critical review of Bacillus thuringiensis var. Thuringiensis berliner and other crystalliferous bacteria.
8132

BACTERIA
Trans-stadial and transovarial development of disease agents in arthropods.
8095

A bloating disease of adults of the apple maggot.
8142

Supplement No. XI to Kaufmann-White scheme.
8464

The demonstration of a single species of an unclassified bacterium in five cases of bovine lymphosarcoma.
8469

Identification of Brucella abortus: Oxidative metabolism and phage typing.
8474

Precise identification of the strain called Shigella paradysenteriae Y6R or Flexneri Y6R (Burnet).
8483

BACTERIAL DISEASES (INSECTS)
Motion and flagellation of Clostridium brevifaciens.
8094

BACTERIAL DISEASES (PLANTS)
Save your potato crop from fungal and bacterial diseases.
8286

Control of bacterial spot of peach in New Jersey.
8288

Bacterial top and stalk rot disease of corn in Wisconsin.
8297

A boll rot of cotton caused by Erwinia aroideae.
8298

Bacterial spot of tomato in United Arab Republic.
8304

BACTERIAL SOFT ROT
Save your potato crop from fungal and bacterial diseases.
8286

BACTERIAL SPOT
Control of bacterial spot of peach in New Jersey.
8288

Bacterial spot of tomato in United Arab Republic.
8304

BACTERICIDES
Pesticide usage in relation to beekeeping.
8075

Save your potato crop from fungal and bacterial diseases.
8286

Insecticidal-germicidal compositions of quaternary ammonium ortho phenyl phanate halide complexes. Patent 3,458,629.
8593

BACTERINS
Bovine vibriosis.
8478

BACTERIOPHAGES
Studies on the 5'-terminus of turnip yellow mosaic virus RNA.
8316

Identification of Brucella abortus: Oxidative metabolism and phage typing.
8474

BAITS
Studies on rodents and their control. Part V. Some factors affecting lethal feeding period with warfarin.
8522

BARBAREA VULGARIS
Control of yellow rocket (Barbarea vulgaris) and other broadleaf weeds associated with established alfalfa.
8402

BARK
How to distinguish attacks by the black turpentine beetle and Dioryctria amatella on southern pines.
8339

BARK DISEASES
New species of Ceratocystis associated with bark injuries on deciduous fruit trees.
8289

BARLEY
Grain aphids in New brunswick. IV. Effects of malathion and 2,4-D amine on aphid populations and on yields of oats and barley.
8320

Recognition of a greenhug biotype injurious to sorghum.
8349

Formulation studies with ioxynil and bromoxynil. (abstract).
8409

Stimulation of plant growth. Patent 3,454,391.
8592

BASIDIOMYCETES
Pathological changes in the trunk of Prunus armeniaca L. and their relationship to the premature death of apricots. I. Investigations in the area of wood structure.
8308

BATS
The significance of DDT in household and structural pest control - 1969.
8523

BEANS
Identification of viruses isolated from cowpeas in Alabama.
8295

Formulation studies with ioxynil and bromoxynil. (abstract).
8409

BEAUVERIA
Secondary effects of entomophagous fungi on humans and vertebrates: Actual cases.
8471

BEAUVERIA TENELLA
Laboratory study of the ecological conditions favoring the development of the fungus Beauveria tenella on cockchafer larvae.
8116

BEE DISEASES
Honey bee pathology.
8079

Selection for American foulbrood resistance in larval honey bees.
8134

Compounds tested for control of Nosema in honey bees.
8160

BEES
Controlling wasps.
8071

Recent advances in bee communication and orientation.
8154

The evolution and genetics of insect behaviour.
8228

BEETS
Comparison tests between various active ingredients employed during 1966 in the control of the flea beetle of the beet (Chaetocnema tibialis).
8208

Contribution to the etiologic study and control of beet germ rotting.
8311

BELONOLAIMUS LONGICAUDATUS
Effect of organic and inorganic nitrogen on nematode populations on turf.
8383

BEMISIA TABACI
Biological studies on Amblyscius aleyrodis a predator of the cotton whitefly (Acarina, Phytoseiidae).
8338

BENEFIN
Chemical weed control in direct seeded marigolds.
8412

BENZAMIDES
Methods of controlling bacteria, fungi, nematodes and weed pests with tetrahalohydroxybenzamides. Patent 3,459,534.
8277

BENZENE HEXACHLORIDE
Research on bio-ecology of Sitona crinitus (Herbst) and method for chemical control.
8148

Insecticide-cytoplasmic interactions in insects and vertebrates.
8203

Forest entomology.
8328

Developments in insecticide control of the rice stem borer in Japan.
8356

Recent developments in and future prospects for the chemical control of the rice stem borer in India.
8370

Determination of pesticides in water by microcoulometric gas chromatography after liquid-liquid extraction.
8530

Chlorinated insecticides in the body fat of people in the United States.
8538

BENZIMIDAZOLES
Anthelmintic compositions and methods employing 2-(2'-oxazolin-2'-yl)-benzimidazoles. Patent 3,457,351.
8497

Methods for stabilizing pesticidal compositions of 2-alkoxycarbonylaminobenzimidazolecarboxylic esters. Patent 3,454,700.
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BENZOTHIAZOLE COMPOUNDS
Herbicidal composition and method employing thioalkylthiobenzothiazoles. Patent 3,455,676.
8393

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8073

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8080

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8092

Trans-stadial and transovarial development of disease agents in arthropods.
8095

Recent fundamental work on tsetse flies.
8124

Fungal-insect mutualism in trees and timber.
8125

A critical review of Bacillus thuringiensis var. Thuringiensis berliner and other crystalliferous bacteria.
8132

Bionomics and ecology of predaceous Coccinellidae.
8135

Recent advances in bee communication and orientation.
8154

Food selection by grasshoppers.
8164

The evolution and past dispersal of the Trichoptera.
8181

Gut absorption.
8207

Bibliography on biological control. XII.
8340

Bibliography on biological control. XI.
8341

Evaluation of forest insect infestations.
8357

Can the developmental trends of biological pest control be demonstrated with a bibliography .
8375

Mode of action of insecticide synergists.
8569

Systemic insecticides in trees.
8585

BIOCHEMISTRY
Biochemistry and taxonomy.
8060

A critical review of Bacillus thuringiensis var. Thuringiensis berliner and other crystalliferous bacteria.
8132

Persistence of resistant populations after the relaxation of the selection pressure.
8144

Purification of a cytoplasmic-polyhedrosis virus of the silkworm, Bombyx mori.
8159

Acid phosphatase activity in the digestive system of the desert locust Schistocerca gregaria (Forskal).
8166

Effects of sub-lethal dosages of parathion and carbaryl on the biology of Dysdercus koenigii Fabricius.
8191

Insecticide-cytoplasmic interactions in insects and vertebrates.
8203

Development of controlled conditions for the study of red stele disease on strawberries.
8216

Evidence for conversion of DDT to TDE in rat liver: I. Liver/body fat ratios of TDE.
8472

Precise identification of the strain called Shigella paradysenteriae Y6R or Flexneri Y6R (Burnet).
8483

Hemoglobins of parasitic nematodes. II. Electrophoretic analysis of the multiple hemoglobins of adults and developmental stages of the rabbit stomach worm, Obeliscoides cuniculi.
8495

Quantitative aspects of lipid utilization during embryogenesis of Ascaris suum eggs.
8503

Chitinase activity in developmental stages of Ascaris suum and its inhibition by antibody.
8504

The development of Haemonchus contortus in vitro. I. The effect of pH and pCO2 on the rate of development to the fourth-stage larva.
8505

Parasites as biological models.
8507

Binding of 60-co-vitamin B12 by Ascaris suum intestine.
8517

Aldrin epoxidase activity of rat liver and rat liver microsomes under various conditions of storage.
8560

Degradation of parathion in the rat.
8570

Biochemical changes in rat liver in response to treatment with drugs and other agents--II. effects of halothane, DDT, other chlorinated hydrocarbons, thioacetamide, dimethylnitrosamine and ethionine.
8571

BIOKINETICS
Bi-modal effect of piperonyl butoxide on the o- and p-hydroxylations of biphenyl by mouse liver microsomes.
8566

Comparison of assay methods for studying O,O-diethyl, O-p-nitrophenyl phosphate (paraoxon) detoxification in vitro.
8568

BIOLOGICAL ASSAY
Activity of repellents employed in aerosol form.
8110

Effect of gamma radiation on the insecticidal efficiency of malathion deposits on wheat and kraft paper.
8519

Tolerances of three species of anuran amphibians to five chlorinated hydrocarbon insecticides.
8541

Comparison of assay methods for studying O,O-diethyl, O-p-nitrophenyl phosphate (paraoxon) detoxification in vitro.
8568

A study of the development of the giberellin content of embryos of Evonymus europaeus L., in the course of the stratification of seeds.
8584

BIOLOGICAL CONTROL (INSECTS)
Biology of Bracon mellitor, a parasite of the boll weevil.
8070

The old house borer in Eastern States.
8076

Effects of introduced irradiated male grain mites on population development.
8091

Research with ionizing irradiation on the sterilization and radiosensitivity of Chrysomela decemlineata Say.
8096

Practical importance of resistance to insecticides in Anopheles.
8099

A critical review of Bacillus thuringiensis var. Thuringiensis berliner and other crystalliferous bacteria.
8132

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8167

Predators and parasites of Aphytis (Hym., Aphelinidae).
8206

Preliminary laboratory study of the effect of X rays on the fertility of Carpocapsa pomonella (Laspeyresia pomonella L.).
8229

Note on the efficiency of Prospaltella perniciosi Tow. in France.
8326

New perspectives in the control of Aonidiella aurantii of Morocco (Hom., Diaspididae).
8327

Neodiprion taedae linearis: A sawfly pest of loblolly and shortleaf pines.
8334

Biological studies on Amblyseius aleyrodis a predator of the cotton whitefly (Acarina, Phytosciidae).
8338

Bibliography on biological control. XII.
8340

Bibliography on biological control. XI.
8341

The application of a polyhedral nuclear virus for the control of Lymantria dispar L. larvae.
8358

Activity of the working groups: Working group on San Jose Scale.
8359

Information gathered in the course of nine years of work with Prospaltella perniciosi Tow., parasite of the San Jose scale (Quadraspidiotus perniciosus Comst.).
8360

Some aspects of biological control of the San Jose scale (Quadraspidiotus perniciosus Comst.) with the help of the aphelinid Prospaltella perniciosi Tow.
8361

The possible role of biotic factors in an integrated program for rice stem borer control.
8364

Fifty years of research on the pink bollworm in the United States.
8365

The rice gall midge Pachydiplosis oryzae (Wood-Mason).
8371

Can the developmental trends of biological pest control be demonstrated with a bibliography.
8375

The possible control of rice stem borers by the use on natural enemies.
8379

Secondary effects of entomophagous fungi on humans and vertebrates: Actual cases.
8471

BIOLOGICAL CONTROL (WEEDS)
Occurrence of Orobanche cernua on Pluchea lanceolata, an obnoxious weed in Rajasthan, India.
8411

BIOLOGY
New data on the distribution and biology of the couch grass nematode (Paranguina agropyri Kirjanova, 1955 (Nematoda: Tylenchida).
8385

Parasites as biological models.
8507

BIONOMICS
Bionomics and ecology of predaceous Coccinellidae.
8135

BIOTIN
Effect of biotin deficiency on food intake and body and organ weights of male albino rats.
8473

BIPHENYL
Bi-modal effect of piperonyl butoxide on the o- and p-hydroxylations of biphenyl by mouse liver microsomes.
8566

BIRDS
Studies on the behaviour of Lucilia illustris Meigen as a parasite of vertebrates under experimental conditions.
8103

Avian and mammalian predators of forest insects.
8330

Biology and economic importance of the chigger Neoschongastia americana on turkeys.
8489

Redescription of Ornithobilharzia canaliculata (Rud.) Odhner, with notes on classification of the genus Ornithobilharzia and the subfamily Schistosomatinae (Trematoda).
8516

Pesticide residues in a marine population of double-crested cormorants.
8545

DDT residues in Adelie penguins and a crabeater seal from Antarctica.
8552

Response of robins to DDT and methoxychlor.
8565

BIRDSFOOT TREFOIL
A three year summary of weed control for establishment of legume seedings.
8397

Effectiveness of triazines and EPTC for weed control in seedling legumes.
8422

BLACK MILDEW
A black mildew, of the genus Diporotheca, found on roots of Nicotiana tabacum in Connecticut.
8278

BLACK POINT
Alternaria seed infection of wheat.
8283

BLACK SCURF
Save your potato crop from fungal and bacterial diseases.
8286

BLACKHEAD
Preparation of nitroimidazole carbamates. patent 3,459,764.
8463

Colorimetric determination of ronidazole in feeds.
8481

BLACKLEG (POTATOES)
Save your potato crop from fungal and bacterial diseases.
8286

BLAST
Piricularia oryzae, a problem common to rice growing countries.
8282

BLATTELLA GERMANICA
Toxicology and physiology of DDT resistance in the German cockroach.
8138

BLISTER RUST
The ineffectiveness of cycloheximide and phytoactin as chemical controls of the blister rust disease.
8301

BLOOD
The demonstration of a single species of an unclassified bacterium in five cases of bovine lymphosarcoma.
8469

BLOOD MEAL
Host-parasite interactions and the feeding of blood-sucking arthropods.
8490

BLOOD PARASITES
Fluorescent antibody staining of four Babesia species.
8467

BLOOD PLASMA
Studies on mouse leukemia viruses. I. Isolation and characterization of a group-specific antigen.
8477

BLUEBERRIES
Effects of increased pollinator levels on production of the highbush blueberry, Vaccinium corymbosum.
8089

BOLL ROT
A boll rot of cotton caused by Erwinia aroideae.
8298

BOMBYLIIDAE
Additions to the Cyrtosiinae (Bombyliidae) of South Africa.
8037

BOMBYX MORI
Microtubules in the spermatids of the silkworm (Bombyx mori L.).
8102

Correlation of nucleolytic activities with the stage of growth of the silkworm.
8151

Purification of a cytoplasmic-polyhedrosis virus of the silkworm, Bombyx mori.
8159

BOOPHILUS
Host-parasite interactions and the feeding of blood-sucking arthropods.
8490

BORDEAUX MIXTURE
Save your potato crop from fungal and bacterial diseases.
8286

BORON
Plant treatment in relation to the rhizosphere effect. III. Foliar application of certain trace elements and metallic chelates in relation to the rhizosphere microflora of rice (Oryza sativa L.).
8588

BOTRYTIS ALLII
Neck rot in onions.
8296

BOUTONNEUSE FEVER
Ticks in relation to human diseases caused by Rickettsia species.
8136

BRACON MELLITOR
Biology of Bracon mellitor, a parasite of the boll weevil.
8070

BRACONIDAE
A new Phanerotoma species from Syria (Hymenoptera, Braconidae).
8034

Inseet parasite complex berseem armyworm Spodoptera exigua (Hubn.) (Lepidoptera, Noctuidae).
8082

The possible control of rice stem borers by the use on natural enemies.
8379

BRAHMAEA
The systematic position of Brahmaea europaea Hartig (Lepidoptera Brahmaeidae).
8053

BRAHMAEIDAE
The systematic position of Brahmaea europaea Hartig (Lepidoptera Brahmaeidae).
8053

BRAIN
Acoustic interneurons in the brain of noctuid moths.
8177

The effects of an acute DDT exposure on the spontaneous electrical activity of goldfish cerebellum.
8558

BREEDING
On the arrangement of genes of 28s and 18s ribosomal RNA'S in Drosophila melanogaster.
8259

BROMACIL
Chemical clearing of transmission line right of way in quebec.
8394

BROMO-2-CHLORO-1,1,1-TRIFLUOROETHANE, 2-
Biochemical changes in rat liver in response to treatment with drugs and other agents--II. effects of halothane, DDT, other chlorinated hydrocarbons, thioacetamide, dimethylnitrosamine and ethionine.
8571

BROMO-2'-DEOXYURIDINE, 5-
Effect of 5-fluorouacil and 5-bromo-2'-deoxyuridine on the induction of thymidine kinase in polyoma virusinfeetcd mouse embryo cells.
8488

BROMOPHENYL)-1-METHOXY-1-METHYLUREA, 3-(P
Analysis of potato for residue of C-3126 and of squash for residue of prometryne.
8544

BROMOURACIL, 5-
On the mechanization of radiosensitization by 5-bromouracil. Studies on 60Co-gamma irradiated phage phi X-174 and its single-stranded infectious DNA.
8599

BROMOXYNIL
Formulation studies with ioxynil and bromoxynil. (abstract).
8409

Control of annual weeds in spring-seeded alfalfa with preplant, preemergence, and postemergence herbicides.
8413

BROWN ROT
Save your potato erop from fungal and bacterial diseases.
8286

BRUCELLA ABORTUS
Identification of Brucella abortus: Oxidative metabolism and phage typing.
8474

BRUCELLOSIS
Study of the plasmocytic reaction in experimental brucellosis infection.
8451

Bovine vibriosis.
8478

BRUSH CONTROL
The response of brush to picloram, dicamba, 2,3,6-TBA and phenoxy herbicides.
8435

BUXUS SEMPERVIRENS
Licorice-root - dichlobenil mulch combination for control of weeds in boxwood plantings.
8406

BYTHOSTETHUS
Notes about Anobiidae. XXXI. Genera of the Dorcatominae of the Ethiopian fauna.
8029

CABBAGE
The effect of diphenamid on the uptake and distribution of maeronutrient elements in cabbage.
8305

Cabbage looper control in Florida - a cooperative program.
8345

CACAO
Use of cacao pod for recovering Phytophthora species pathogenic to Hevea brasiliensis.
8287

CACODYLIC ACID
Forest chemi-thinning with cacodylic acid - a progress report.
8424

Preliminary studies of the effects of cacodylic acid on the activity of 2,4-D and picloram in bean plants. (abstract).
8438

CAFFEINE
Caffeine and radiation induced mutations in Drosophila melanogaster.
8250

CALCIUM
Movement of calcium and magnesium across the midgut epithelium of the American cockroach.
8183

CALLIPHORA
A noninclusion virus of blow-fly larvae.
8105

CALLIPHORIDAE
Changes in nitrogenous compounds during the metamorphosis of the blowfly, Lucilia cuprina.
8086

CANCER
Immunologic reactions in animals with tumors.
8446

CANKER
New species of Ceratocystis associated with bark injuries on deciduous fruit trees.
8289

The ineffectiveness of cycloheximide and phytoactin as chemical controls of the blister rust disease.
8301

CARABIDAE
New Pterostichinae (Coleopt. Carabid.). VIII.
8058

Investigation into the morphology, taxonomy, and biology of the Podapolipidae (Acarina, Tarsonemini) (Under special consideration, the parallel evolution of the genera feutarsopolipus and Dorsipes with their hosts (Coleopt., Carabidae)).
8173

CARAUSIUS MOROSUS
Investigations of the morphology and development of the scolopidia in the stick insect Carausius morosus Br.
8141

CARBAMATES
Pesticide usage in relation to beekeeping.
8075

Practical importance of resistance to insecticides in Anopheles.
8099

Alkyl 2-methylpropenyl ketoxime carbamates. Patent 3,454,642.
8117

Use of the multiple regression equation in the prediction of the insecticidal activity of anticholinesterase insecticides.
8143

Effects of sub-lethal dosages of parathion and carbaryl on the biology of Dysdercus koenigii Fabricius.
8191

Mosquito control in and around homes and farmsteads.
8274

Hydroxamate carbamates as nematocides. patent 3,459,866.
8285

Corn borer outlook.
8321

Cabbage looper control in Florida - a cooperative program.
8345

How to control insects on field tobacco.
8347

Fifty years of research on the pink bollworm in the United States.
8365

Topical, fumigation, and residual toxicity of insecticides to rice stem borers.
8374

Nitrophenyl carbamic acid esters as molluscicides. Patent 3,458,639.
8442

Repelling pheasants from sprouting corn with a carbamate insecticide.
8443

Preparation of nitroimidazole carbamates. patent 3,459,764.
8463

Mode of action of insecticide synergists.
8569

CARBARYL
The biology of the European corn borer, Ostrinia nubilalis (Hubner), in Manitoba.
8127

Effects of sub-lethal dosages of parathion and carbaryl on the biology of Dysdercus koenigii Fabricius.
8191

Mosquito control in and around homes and farmsteads.
8274

Corn borer outlook.
8321

Chemicals that take care of the mango hopper.
8329

Fifty years of research on the pink bollworm in the United States.
8365

Apple chalcid, Torymus varians (Wlk.), (Hymenoptera: Torymidae), in Quebec.
8373

CARBOHYDRATES
Nutritional studies of the rice stem borer Chilo suppressalis Walker.
8140

Carbohydrates in the haemolymph of the cricket, Acheta domesticus.
8210

CARBON DIOXIDE
Effect of carbon dioxide on toxicity of hydrocyanic acid and methyl bromide to adults of the

confused flour beetle and granary weevil at two different temperatures.
8074

Regulation of external respiration by the booklung spiracles of the spiders, Arancus diadematus Clerck and A. marmoreus Clerck.
8176

The development of Haemonchus contortus in vitro. I. The effect of pH and pCO2 on the rate of development to the fourth-stage larva.
8505

CARBON DISULFIDE
Modification of the carbon disulfide evolution method for dithiocarbamate residues.
8604

CARBON ISOTOPES
Toxicology and physiology of DDT resistance in the German cockroach.
8138

Absorption of DDT and metabolism of DDT and related compounds by DDT-RESISTANT codling moths.
8180

CARBONYL COMPOUNDS
Varietal resistance to rice stem borers in Japan.
8362

CARCINOGENS
Neoplasms of insects.
8129

Immunologic reactions in animals with tumors.
8446

CARNITINE
Carnitine acetyltransferase in developing and mature sperm of wild-type and mutant Drosophila melanogaster.
8231

CARRIERS
Nortricyclic-3-ureas and their herbicidal compositions and methods of use. Patent 3,454,393.
8606

CARYA GLABRA
Notes on fungi responsible for the decay of hickory nuts.
8284

CATERPILLARS
Biological investigations on Pandemis heparana (Den. and Schiff.) with special consideration given to the factors inducing diapause and influencing egg laying.
8155

CATS
Perforation of the esophagus in a cat.
8479

Gastrointestinal nematodes of Venezuelan carnivora.
8492

CATTLE
Fluorescent antibody staining of four Babesia species.
8467

The demonstration of a single species of an unclassified bacterium in five cases of bovine lymphosarcoma.
8469

Bovine vibriosis.
8478

The antigenic composition of various preparations of fertile hydatic cysts analyzed by immunodiffusion and immunoelectrophoresis.
8509

Secretion of DDT by lactating cows fed thyroprotein.
8553

Respiratory exposure of dairy animals to pesticides. in: Organic pesticides in the environment; symposium...American Chemical Society, Atlantic City, N.J., Sept. 13-15, 1965. robert J. gould, ed.
8576

CECIDOMYIIDAE
A hitherto unrecorded midge gall of Myrsine australis (A. Rich.) Allan.
8323

The natural enemies of the chaff scale, Parlatoria pergandii Comstock, in Israel.
8344

CELL NUCLEUS
On the arrangement of genes of 28s and 18s ribosomal RNA'S in Drosophila melanogaster.
8259

CELLS
Fluorescent antibody staining of tobacco mosaic virus antigen in tobacco mesophyll protoplasts.
8307

Study of the plasmocytic reaction in experimental brucellosis infection.
8451

Demonstration with indirect immunofluorescence of a cellular epsilon-antigen of the mouse.
8459

The polypeptides of adenovirus. III. Synthesis in infected cells.
8487

CENTAUREA REPENS
Control and elimination of noxious weeds.
8404

CENTRIFUGATION
Studies on mouse leukemia viruses. I. Isolation and characterization of a group-specific antigen.
8477

CENTRODORA ITALICA
Notes on some new or little known Chalcididae (Hym.).
8031

CERAMBYCIDAE
New lamiids from the stock of the state zoological collection in Munich (Coleoptera, Cerambycidae).
8025

The old house borer in Eastern States.
8076

CERATOCYSTIS ALBA
New species of Ceratocystis associated with bark injuries on deciduous fruit trees.
8289

CERATOCYSTIS CALIFORNICA
New species of Ceratocystis associated with bark injuries on deciduous fruit trees.
8289

CERATOCYSTIS COERULESCENS
Occurrence of Cryptostroma corticale in Northwestern United States.
8294

CERATOPHYLLUS
Behavioural aspects of the ecology of the sand martin flea Ceratophyllus styx jordani Smit (Siphonaptera).
8139

CESTODA
Preventing and controlling internal parasites of hogs.
8510

CESTODIASIS
Does cottontail sex or age affect incidence of Taenia pisiformis cysticerci .
8511

CHAETOCNEMA TIBIALIS
Comparison tests between various active ingredients employed during 1966 in the control of the flea beetle of the beet (Chaetocnema tibialis).
8208

CHALCICIDAE
Notes on some new or little known Chalcididae (Hym.).
8031

Apple chalcid, Torymus varians (Wlk.), (Hymenoptera: Torymidae), in Quebec.
8373

CHARCOAL
Use of charcoal to deactivate herbicide residues in turfgrass seedbeds.
8416

CHELATES
Plant treatment in relation to the rhizosphere effect. III. Foliar application of certain trace elements and metallic chelates in relation to the rhizosphere microflora of rice (Oryza sativa L.).
8588

CHEMICAL ANALYSIS
Automated determination of zoalene in feeds.
8452

Colorimetric determination of ronidazole in feeds.
8481

The influence of dietary methionine on the amino acid pool of Hymenolepis diminuta in the rat's intestine.
8498

Collaborative study on the determination of aflatoxins in cottonseed products.
8520

Pesticide residues in a marine population of double-crested cormorants.
8545

Quantitative method for the estimation of aflatoxins in peanuts and peanut products.
8605

Analysis of cocoa beans for aflatoxins.
8608

CHEMICAL CONTROL (INSECTS)
Controlling wasps.
8071

Effect of carbon dioxide on toxicity of hydrocyanic acid and methyl bromide to adults of the confused flour beetle and granary weevil at two different temperatures.
8074

Pesticide usage in relation to beekeeping.
8075

The old house borer in Eastern States.
8076

Practical importance of resistance to insecticides in Anopheles.
8099

Adult housefly control agents. Patent 3,454,638.
8111

The biology of the European corn borer, Ostrinia nubilalis (Hubner), in Manitoba.
8127

Persistence of resistant populations after the relaxation of the selection pressure.
8144

Research on bio-ecology of Sitona crinitus (Herbst) and method for chemical control.
8148

Anopheles moucheti in Cameroon.
8163

Effects of sub-lethal dosages of parathion and carbaryl on the biology of Dysdercus koenigii Fabricius.
8191

Comparison tests between various active ingredients employed during 1966 in the control of the flea beetle of the beet (Chaetocnema tibialis).
8208

The susceptibility of Culex pipiens molestus forskal in Israel to several insecticides in 1958-1960 and in 1965.
8272

Practical importance of insecticide resistance for malaria eradication in tropical Africa.
8273

Mosquito control in and around homes and farmsteads.
8274

Entomological factors in persisting transmission of malaria in eradication programs.
8276

Grain aphids in New brunswick. IV. Effects of malathion and 2,4-D amine on aphid populations and on yields of oats and barley.
8320

Corn borer outlook.
8321

Fire on fire ants .
8322

Double your cotton yield by spraying.
8324

Chemicals that take care of the mango hopper.
8329

Control of the boll weevil by mechanically destroying fallen infested cotton squares.
8331

Neodiprion taedae linearis: A sawfly pest of loblolly and shortleaf pines.
8334

Chemical control of a species of the false chinchbug group on wheat and sugar beets.
8336

Greenbug control in grain sorghum.
8337

Natural enemies of Laspeyresia pomonella L. (Lepidoptera, Tortricidae) and the effect of chemical treatment on their useful activity.
8342

Cabbage looper control in Florida - a cooperative program.
8345

Residues of diazinon on field corn treated with granular, capsular, and ULV formulations for control of the European corn borer.
8346

How to control insects on field tobacco.
8347

Experiments on the insecticidal control of Oxycanus fuscomaculatus Walker (Lepidoptera: Hepialidae).
8348

Developments in insecticide control of the rice stem borer in Japan.
8356

Rice leafhoppers.
8363

Fifty years of research on the pink bollworm in the United States.
8365

Recent developments in and future prospects for the chemical control of the rice stem borer at IRRI.
8366

Insecticide treatment of seed, as a control method of the maize leaf weevil (Tanymecus dilaticollis Gyll.).
8369

Recent developments in and future prospects for the chemical control of the rice stem borer in India.
8370

The rice gall midge Pachydiplosis oryzae (Wood-Mason).
8371

Some recommendations for the control of perforators of seeds of Anonaceae (Bephrata sp. order Hymenoptera).
8372

Apple chalcid, Torymus varians (Wlk.), (Hymenoptera: Torymidae), in Quebec.
8373

Investigations on the biology and control of Melolontha melolontha in hazelnut plantations.
8377

Mode of action, translocation, oxidation, and decomposition of insecticides within the rice plants.
8581

Shell's versatile products Aldrite 4, Dieldrite 1.5 Vaponite 2 formulated for all P.C.O. business.
8613

CHEMICAL CONTROL (NEMATODES)

Powdery mildew of hydrangeas.
8303

Effect of organic and inorganic nitrogen on nematode populations on turf.
8383

Multiple applications of 1,2-dibromo-3-chloropropane for control of nematodes in established rose plantings.
8384

CHEMICAL CONTROL (PESTS)

The selective control of simulium larvae by particulate insecticides and its significance in river management.
8020

Methods of controlling bacteria, fungi, nematodes and weed pests with tetrahalohydroxybenzamides. Patent 3,459,534.
8277

Nitrophenyl carbamic acid esters as molluscicides. Patent 3,458,639.
8442

Studies on rodents and their control. Part V. Some factors affecting lethal feeding period with warfarin.
8522

The significance of DDT in household and structural pest control - 1969.
8523

Insecticidal-germicidal compositions of quaternary ammonium ortho phenyl phanate halide complexes. Patent 3,458,629.
8593

Broadcast spraying.
8612

The Gold Crest Pest Control Program for the pest control industry.
8614

CHEMICAL CONTROL (PLANT DISEASES)

Diseases of tea, coffee and rubber discussed at the First International Congress of Plant Pathology.
8280

Piricularia oryzae, a problem common to rice growing countries.
8282

Hydroxamate carbamates as nematocides. patent 3,459,866.
8285

Save your potato crop from fungal and bacterial diseases.
8286

Control of bacterial spot of peach in New Jersey.
8288

Plant diseases and their chemical control.
8291

Neck rot in onions.
8296

The ineffectiveness of cycloheximide and phytoactin as chemical controls of the blister rust disease.
8301

Powdery mildew of hydrangeas.
8303

Control of vascular tree diseases with trichlorophenyl acetic acids. Patent 3,458,640.
8306

Phospho-acid esters as fungitoxic agents. Patent 3,459,857.
8313

Studies on the 5'-terminus of turnip yellow mosaic virus RNA.
8316

CHEMICAL CONTROL (WEEDS)

Effect of paraquat in the establishment of alfalfa.
8392

Herbicidal composition and method employing thioalkylthiobenzothiazoles. Patent 3,455,676.
8393

Chemical clearing of transmission line right of way in quebec.
8394

A three year summary of weed control for establishment of legume seedings.
8397

The control of wild radish in Katahdin potatoes (1967).
8398

Complexes of phosphorus pentafluoride oximes as herbicides. Patent 3,455,674.
8399

Chemical control of vegetation under highway guardrails (1967).
8400

Herbicide evaluation in soybeans at Georgetown, Delaware, 1967.
8401

Control of yellow rocket (Barbarea vulgaris) and other broadleaf weeds associated with established alfalfa.
8402

Pre-harvest use of chemicals in potato production.
8403

Control and elimination of noxious weeds.
8404

Bispyridinium compounds as herbicides. Patent 3,458,305.
8405

Licorice-root - dichlobenil mulch combination for control of weeds in boxwood plantings.
8406

Performance of preemergence herbicides in 1967 on Merion Kentucky bluegrass turf.
8407

Quackgrass control on heavy clay soils.
8408

Formulation studies with ioxynil and bromoxynil. (abstract).
8409

Chemical weed control in direct seeded marigolds.
8412

Control of annual weeds in spring-seeded alfalfa with preplant, preemergence, and postemergence herbicides.
8413

Aminophosphonate herbicides. Patent 3,455,675.
8415

Use of charcoal to deactivate herbicide residues in turfgrass seedheds.
8416

Effectiveness of preemergence crabgrass herbicides for lawns and putting-green turf.
8417

Contribution to risk of damage in the practical use herbicides.
8418

Dihalophenyl-p-nitrophenyl ethers as herbicides. Patent 3,454,392.
8419

Time of application of EPTC for nutgrass control in potatoes.
8421

Effectiveness of triazines and EPTC for weed control in seedling legumes.
8422

Control of dandelion and spotted-spurge in lawn turf with herbicides.
8423

Methods of controlling weeds with derivatives of aminooxy lower alkanoic acids. Patent 3,457,063.
8426

Chemical weed control in crops.
8427

Herbicide trials for annual weeds in soybeans. (abstract).
8428

Preemergence and postemergence yellow foxtail control in corn.
8429

Postemergence control of Veronica filiformis with DCPA.
8430

From weeds to pasture in one year.
8431

Methods of weed control in sugar beets.
8432

The response of brush to picloram, dicamba, 2,3,6-TBA and phenoxy herbicides.
8435

Weed control in sugar beets with preemergence herbicides.
8436

Weed control in white potatoes with preemergence herbicides.
8437

N-(hydroearbylthioalkyl)halophenoxyaeylamides as herbieides. Patent 3,459,533.
8439

The effeets of phytobland oils and spray volume on postemergence aetivity of atrazine and eombinations of atrazine with linuron in eorn.
8440

Weed and crop responses to herbieides applied with various eultural praetiees and at different stages of potato growth.
8441

Effeet of several herbieides on flower produetion, growth and weed eontrol in marigolds.
8590

CHEMICAL STRUCTURE
Biochemieal studies on Bakanae fungus. Part 74. Synthesis of substanees related to gibberellins. Part XVI An alternate synthetie route to a gibbane-10-earboxylie aeid.
8586

CHEMICALS
The old house borer in Eastern States.
8076

Compounds tested for eontrol of Nosema in honey bees.
8160

Shell's versatile produets Aldrite 4, Dieldrite 1.5 Vaponite 2 formulated for all P.C.O. business.
8613

The Gold Crest Pest Control Program for the pest eontrol industry.
8614

CHEMORECEPTORS
Reeent advanees in bee eommunieation and orientation.
8154

Chemosensory bases of host plant seleetion.
8186

CHEMOSTERILANTS
Praetieal importanee of resistanee to inseetieides in Anopheles.
8099

The residual of N,N,N',N'-tetramethylppiperidinophosphonie diamide after injeetion, tarsal eontaet, and topieal applieation to the boll weevil.
8202

CHICKENS
The development of lesions in vitamin A-defieient adult fowl.
8458

Drug resistanee in Eimeria tenella. IX. Effect of aeriflavine-mediated reversion on reaequisition of resistanee to amprolium.
8470

Strueture-aetivity and metabolism studies on organophosphate teratogens and their alleviating agents in developing hen eggs with speeial emphasis on Bidrin.
8572

Comparison of four extraetion and eleanup proeedures for chlorinated pestieide residues in eggs.
8610

CHICKS
RNA synthesis in ehiek embryo eells infeeted with defferent strains of NDV.
8449

Autoradiographie study of the effeet of Neweastle disease virus on the mitotie eyele of eells.
8456

Malathion-induced teratisms in the developing ehiek.
8564

CHILO SUPPRESSALIS
Assessment of the field population of the rice stem borer moth by light trap.
8040

Statistieal methods in rice stem borer researeh.
8063

Mass rearing of the rice stem borer.
8119

Physiology of rice stem borers, including hibernation and diapause.
8120

Nutritional studies of the rice stem borer Chilo suppressalis Walker.
8140

The biology and life eyele of Chilo suppressalis (Walker) and Tryporyza (Schoenobius) ineertulas (Walker) in temperature-elimate areas.
8149

Assessment of rice loss eaused by the rice stem borer.
8353

Varietal resistanee to rice stem borers in Japan.
8362

Reeent developments in and future prospeets for the ehemieal eontrol of the rice stem borer at IRRI.
8366

Topieal, fumigation, and residual toxieity of inseetieides to rice stem borers.
8374

CHIRONOMUS DORSALIS
Quantitative determination of DNA eontent during formation of one of the puffs and one of the Balbiani rings in Chironomus dorsalis.
8264

CHITIN
Chitinase aetivity in developmental stages of Ascaris suum and its inhibition by antibody.
8504

CHLORDANE
Controlling wasps.
8071

The old house borer in Eastern States.
8076

CHLORINATED HYDROCARBONS
The seleetive eontrol of simulium larvae by particulate inseetieides and its signifieanee in river management.
8020

Controlling wasps.
8071

Pestieide usage in relation to beekeeping.
8075

The old house borer in Eastern States.
8076

Praetieal importance of resistanee to inseetieides in Anopheles.
8099

The length of larval stage in Pyrethroid-resistant and suseeptible strains of the house fly, Musea domestica L.
8131

Toxieology and physiology of DDT resistanee in the German eockroaeh.
8138

Persistenee of resistant populations after the relaxation of the seleetion pressure.
8144

Anopheles moucheti in Cameroon.
8163

Absorption of DDT and metabolism of DDT and related eompounds by DDT-RESISTANT eodling moths.
8180

Inseetieide-eytoplasmie interaetions in inseets and vertebrates.
8203

Pollen gathering of honey bees redueed by pestieide sprays.
8205

Comparison tests between various aetive ingredients employed during 1966 in the eontrol of the flea beetle of the beet (Chaetoenema tibialis).
8208

Praetieal importanee of inseetieide resistanee for malaria eradieation in tropieal Afriea.
8273

Mosquito eontrol in and around homes and farmsteads.
8274

Teehnieal problems of malaria eradieation in Afriea.
8275

Entomologieal faetors in persisting transmission of malaria in eradieation programs.
8276

Fire on fire ants.
8322

Double your eotton yield by spraying.
8324

Forest entomology.
8328

Cabbage looper eontrol in Florida - a eooperative program.
8345

How to eontrol inseets on field tobaeeo.
8347

Experiments on the inseetieidal eontrol of Oxyeanus fuseomaeulatus Walker (Lepidoptera: Hepialidae).
8348

Developments in inseetieide eontrol of the rice stem borer in Japan.
8356

Riee leafhoppers.
8363

Fifty years of researeh on the pink bollworm in the United States.
8365

Recent developments in and future prospeets for the ehemieal eontrol of the riee stem borer at IRRI.
8366

Inseetieide treatment of seed, as a eontrol method of the maize leaf weevil (Tanymeeus dilatieollis Gyll.).
8369

Reeent developments in and future prospeets for the ehemieal eontrol of the riee stem borer in India.
8370

The riee gall midge Paehydiplosis oryzae (Wood-Mason).
8371

Topieal, fumigation, and residual toxieity of inseetieides to riee stem borers.
8374

The possible eontrol of riee stem borers by the use on natural enemies.
8379

Multiple applieations of 1,2-dibromo-3-ehloropropane for eontrol of nematodes in established rose plantings.
8384

Control and elimination of noxious weeds.
8404

Contribution to risk of damage in the praetieal use herbieides.
8418

Chemieal weed eontrol in crops.
8427

Seed dressings and game birds.
8444

The signifieanee of DDT in household and struetural pest eontrol - 1969.
8523

Effects of pestieides on raw wastewater.
8524

Identifieation and measurement of ehlorinated organie pestieides in water by eleetron-eapture gas chromatography.
8527

Identification and measurement of ehlorinated organie pestieides in water by eleetron-capture gas ehromatography.
8528

Determination of pesticides in water by mieroeoulometrie gas chromatography after liquid-liquid extraetion.
8530

Persistenee of pestieides in orehards and orehard soils. in; Organie pestieides in the environment; symposium...Amerieaan Chemieal Soeiety, Atlantie City, N.J., Sept. 13-is, 1965. robert J. gould, ed.
8532

Pesticide drift. I. High-clearance vs. aerial application of sprays.
8533

Pesticide residues in food.
8535

Dieldrin effects in two generations of penned hen pheasants.
8537

Chlorinated insecticides in the body fat of people in the United States.
8538

Co-distillation clean-up for DDT residues estimation.
8539

Pesticide residues in a marine population of double-crested cormorants.
8545

Rapid cleanup of dairy products for analysis of chlorinated insecticide residue by electron capture gas chromatography.
8546

Improved extraction of chlorinated hydrocarbon pesticides from animal tissues.
8547

DDT. in: Zweig, Analytical methods for pesticides, plant growth regulators, and food additives. vol. ii. insecticides.
8549

Note on improved extraction for chlorinated pesticide residues in oysters.
8551

DDT residues in Adelie penguins and a crabeater seal from Antarctica.
8552

Secretion of DDT by lactating cows fed thyroprotein.
8553

Residues of DDT and it's derivatives in the fat tissues of some market animals.
8554

Pesticide drift. II. Mist-blower vs. aerial application of sprays.
8555

Residuals of pesticides in cultivated mushrooms.
8556

DDT reduces photosynthesis by marine phytoplankton.
8557

Aldrin epoxidase activity of rat liver and rat liver microsomes under various conditions of storage.
8560

Response of robins to DDT and methoxychlor.
8565

Biochemical changes in rat liver in response to treatment with drugs and other agents--II. effects of halothane, DDT, other chlorinated hydrocarbons, thioacetamide, dimethylnitrosamine and ethionine.
8571

Distribution of pesticide residues in human body tissues from Montgomery County, Ohio. in: Organic pesticides in the environment; symposium...American Chemical Society Atlantic City, N.J., Sept. 13-15, 1965. robert J. Gould, ed.
8573

Hazards of insecticides and residue problems in rice cultivation.
8574

Respiratory exposure of dairy animals to pesticides. in: Organic pesticides in the environment; symposium...American Chemical Society, Atlantic City, N.J., Sept. 13-15, 1965. robert J. gould, ed.
8576

Mode of action, translocation, oxidation, and decomposition of insecticides within the rice plants.
8581

Process for the manufacture of a pesticide from petroleum hydrocarbons. Patent 3,454,664.
8609

Comparison of four extraction and cleanup procedures for chlorinated pesticide residues in eggs.
8610

Shell's versatile products Aldrite 4, Dieldrite 1.5 Vaponite 2 formulated for all P.C.O. business.
8613

CHLORINE
Tolerances of three species of anuran amphibians to five chlorinated hydrocarbon insecticides.
8541

CHLORO-N-(ISOBUTOXYMETHYL)-2',6'-ACETOXYLIDIDE, 2-
Weed control in sugar beets with preemergence herbicides.
8436

CHLORO-N-ISOPROPYLACETANILIDE, 2-
Effect of CP31393 on auxin-induced growth.
8579

CHLORO-1-(2,4,5-TRICHLOROPHENYL)VINYL DIMETHYL PHOSPHATE, 2-
Gardona as a mothproofer of woolen fabric.
8518

CHLOROSIS
Identification of viruses isolated from cowpeas in Alabama.
8295

Effect of crinkle-scurf of citrus on tree growth, productivity, and fruit quality.
8312

CHLORTETRACYCLINE
A bloating disease of adults of the apple maggot.
8142

CHOLINESTERASES
Use of the multiple regression equation in the prediction of the insecticidal activity of anticholinesterase inseeticides.
8143

Indoxyl acetate spray reagent for fluorogenic detection of cholinesterase inhibitors in environmental samples.
8607

CHROMATIN
The embryology of Lytta viridana Le Conte (Coleoptera: Meloidae). IV. Chromatin elimination.
8261

CHROMATOGRAPHY
The residual of N,N,N',N'-tetramethylppiperidinophosphonic diamide after injection, tarsal contact, and topical application to the boll weevil.
8202

Chromatographic comparison of pteridine levels in four white loeus alleles of Drosophila melanogaster.
8218

Genetic control of the iso-accepting forms of tyrosyl-tRna in a suppressor of Drosophila melanogaster.
8269

Collaborative study on the determination of aflatoxins in cottonseed products.
8520

Techniques and preliminary data of the movement of DDT and Zectran through a forest soil.
8525

Identification and measurement of chlorinated organic pesticides in water by electron-capture gas chromatography.
8527

Identification and measurement of chlorinated organic pesticides in water by electron-capture gas chromatography.
8528

Determination of pesticides in water by microcoulometric gas chromatography after liquid-liquid extraction.
8530

Chlorinated insecticides in the body fat of people in the United States.
8538

The absorption and accumulation of atrazine in barnyardgrass at various stages of development.
8542

Rapid cleanup of dairy products for analysis of chlorinated insecticide residue by electron capture gas chromatography.
8546

DDT residues in Adelie penguins and a crabeater seal from Antaretica.
8552

A study of the development of the giberellin content of embryos of Evonymus europaeus L., in the course of the stratification of seeds.
8584

Biochemical studies on Bakanae fungus. Part 74. Synthesis of substances related to gibberellins. Part XVI An alternate synthetic route to a gibbane-10-carboxylic acid.
8586

GLC determination of residues of disulfoton, oxydemetonmethyl, and their metabolites in tobacco plants.
8596

Thin layer densitometric determination of rotenone and deguelin.
8597

Studies on the effect of sulfuric-fuming nitric acid treatment on the analytical characteristics of toxaphene.
8603

Quantitative method for the estimation of aflatoxins in peanuts and peanut products.
8605

Indoxyl acetate spray reagent for fluorogenic detection of cholinesterase inhibitors in environmental samples.
8607

Analysis of cocoa beans for aflatoxins.
8608

CHROMOSOMES
Cytotaxonomy of Aphididae.
8051

Y-Autosome translocations in Drosophila.
8220

Genetic and environmental variability for bristles in Drosophila.
8227

The complementation map of mutations in a small region of the X-chromosome of Drosophila melanogaster.
8235

Lampbrush chromosomes and multiple nucleoli of Orthoptera.
8239

Genetic control of a sex influenced quantitative trait in Tribolium castaneum.
8240

Inheritance of semi-sterility and transmission of chromosome rearrangements and fragments for 3 generations in the large milkweed bug.
8241

Chromosome aberrations associated with recessive sex-linked lethals induced by two alkylating chemicals in mature spermatozoa of Drosophila.
8245

Detection and partial characterization of a crossover suppressor on chromosome V of the house fly.
8248

Relation between homozygous viability and average dominance in Drosophila melanogaster.
8253

X-ray induced reversal of heterochromatization in male mealy bugs.
8256

Chromosome interactions affecting mating speed in Drosophila robusta.
8258

On the arrangement of genes of 28s and 18s ribosomal RNA'S in Drosophila melanogaster.
8259

Chromosomes of the tsetse fly, Glossina palpalis R.-D..
8262

Quantitative determination of DNA content during formation of one of the puffs and one of the Balbiani rings in Chironomus dorsalis.
8264

New data on nondisjunction of the X chromosomes in females of Drosophila melanogaster.
8268

CHRYSOMELIDAE

Genetic and physiological effects of ethylenimine in Habrobracon females.
8270

Male determining factors found on 3 autosomes in the house fly, Musca domestica L..
8271

Tobacco mosaic virus in dividing mesophyll cells of Nicotiana.
8290

CHRYSOMELIDAE
Research with ionizing irradiation on the sterilization and radiosensitivity of Chrysomela decemlineata Say.
8096

Ecology of common insect pests of rice.
8368

CHRYSOPA CARNEA
Influence of food on the fecundity of Chrysopa carnea Stephens (Neuroptera, Chrysopidae).
8196

CHRYSOPIDAE
Daily and seasonal density of four entomophagous predators on cotton in upper Egypt.
8130

CICADELLIDAE
Double your cotton yield by spraying.
8324

The presence in the vineyards of the Tessin of a nearctic cicadella, new for Switzerland, Scaphoideus littoralis Ball (Hom.Jassidae) a possible carrier of yellow flavescence.
8325

Chemicals that take care of the mango hopper.
8329

Rice leafhoppers.
8363

Ecology of common insect pests of rice.
8368

CICADIDAE
Controlling wasps.
8071

CIRCULIFER TENELLUS
Restricted local spread of curly top in tomatoes.
8332

CIRSIUM ARVENSE
Control and elimination of noxious weeds.
8404

CITRUS
Effect of crinkle-scurf of citrus on tree growth, productivity, and fruit quality.
8312

New perspectives in the control of Aonidiella aurantii of Morocco (Hom., Diaspididae).
8327

The natural enemies of the chaff scale, Parlatoria pergandii Comstock, in Israel.
8344

CITRUS JUICES
Effect of crinkle-scurf of citrus on tree growth, productivity, and fruit quality.
8312

CLAY SOILS
Quackgrass control on heavy clay soils.
8408

CLIMATE
Note on the efficiency of Prospaltella perniciosi Tow. in France.
8326

Information gathered in the course of nine years of work with Prospaltella perniciosi Tow., parasite of the San Jose scale (Quadraspidiotus perniciosus Comst.).
8360

CLIMBING PLANTS
Pre-harvest use of chemicals in potato production.
8403

Potato vine killing in Maine - 1966.
8425

CLOSTRIDIUM BREVIFACIENS
Motion and flagellation of Clostridium brevifaciens.
8094

COBALT ISOTOPES
Effects of introduced irradiated male grain mites on population development.
8091

Effect of irradiation on mating preference and reproduction suppression of Drosophila melanogaster.
8157

Releases of unsexed gamma-irradiated codling moths for population suppression.
8378

Effect of gamma radiation on the insecticidal efficiency of malathion deposits on wheat and kraft paper.
8519

On the mechanization of radiosensitization by 5-bromouracil. Studies on 60Co-gamma irradiated phage phi X-174 and its single-stranded infectious DNA.
8599

COCCIDIOSIS
Methods of treating coccidiosis with 4-sulfanilamido-2,6-dimethoxypyrimidine. Patent 3,458,631.
8448

Automated determination of zoalene in feeds.
8452

COCCINELLIDAE
Survey and distribution of common lady beetles (Col. Coccinellidae) on date palm trees in Israel.
8042

A new species of Pseudoscymnus Chapin (Col., Coccinellidae) predaceous on scale insects in West Pakistan.
8072

Daily and seasonal density of four entomophagous predators on cotton in upper Egypt.
8130

Bionomics and ecology of predaceous Coccinellidae.
8135

The natural enemies of the chaff scale, Parlatoria pergandii Comstock, in Israel.
8344

COCCOIDEA
A new species of Pseudoscymnus Chapin (Col., Coccinellidae) predaceous on scale insects in West Pakistan.
8072

COCOA
Analysis of cocoa beans for aflatoxins.
8608

COFFEE
Diseases of tea, coffee and rubber discussed at the First International Congress of Plant Pathology.
8280

Pathogenicity of Hemicriconemoides species to coffee.
8386

Oxalis acetosella, a new host of the coffee root-lesion nematode in south India.
8387

COLEOPTERA
A new subfamily of blind beetle from Idaho ice caves with notes on its bionomics and evolution (Coleoptera: Leiodidae).
8065

The old house borer in Eastern States.
8076

Alkyl 2-methylpropenyl ketoxime carbamates. Patent 3,454,642.
8117

A critical review of Bacillus thuringiensis var. Thuringiensis berliner and other crystalliferous bacteria.
8132

Spectrum analysis of the light emitted by Luciola lusitanica (Charp.).
8195

COLIAS EURYTHEME
Ineffectiveness of a microsporidian and a granulosis virus in activating a cytoplasmic polyhedrosis virus in the alfalfa caterpillar, Colias eurytheme.
8198

COLOR
Color and natural products attracting the adult sugarbeet root maggot in Southcentral Idaho.
8197

Contrast perception in eye colour mutants of Drosophila melanogaster and Drosophila subobscura.
8211

COLORIMETRY
Determination of pesticides in water by microcoulometric gas chromatography after liquid-liquid extraction.
8530

COLUMNS (PROCESS)
On the arrangement of genes of 28s and 18s ribosomal RNA'S in Drosophila melanogaster.
8259

CONFERENCES
Activity of the working groups: Working group on San Jose Scale .
8359

CONIDIA
Occurrence of Cryptostroma corticale in Northwestern United States.
8294

CONSUMERS
Insecticide-resistant fishes: A potential hazard to consumers.
8562

CONVOLVULACEAE
An interesting mode of spore liberation by Georgefischeria riveae Thirum. and Naras.
8310

CONVOLVULUS ARVENSIS
Control and elimination of noxious weeds.
8404

COPPER
Plant treatment in relation to the rhizosphere effect. III. Foliar application of certain trace elements and metallic chelates in relation to the rhizosphere microflora of rice (Oryza sativa L.).
8588

COPPER OXYCHLORIDE
Save your potato crop from fungal and bacterial diseases.
8286

COPPER SULFATE
Neck rot in onions.
8296

CORCYRA CEPHALONICA
Dietary efficiency of natural foods for the growth and development of stored grain insect pests.
8521

CORN
Azodrin for corn earworm and fall armyworm control and its persistance in sweet corn.
8069

Bacterial top and stalk rot disease of corn in Wisconsin.
8297

Corn borer outlook.
8321

Distribution of insecticides sprayed by airplane on an irrigated corn plot. in: Organic pesticides in the environment; symposium...American Chemical Society; Atlantic City, N.J., Sept. 13-15, 1965. robert J. gould, ed.
8350

Insecticide treatment of seed, as a control method of the maize leaf weevil (Tanymecus dilaticollis Gyll.).
8369

Quackgrass control on heavy clay soils.
8408

Preemergence and postemergence yellow foxtail control in corn.
8429

The effects of phytobland oils and spray volume on postemergence activity of atrazine and combinations of atrazine with linuron in corn.
8440

Repelling pheasants from sprouting corn with a carbamate insecticide.
8443

Effects of oil and surfactant on residues of atrazine in field grown corn.
8540

Distribution of insecticides sprayed by airplane on an irrigated corn plot.
8543

CORPORA ALLATA
Endocrine control of reproduction in insects.
8113

COTTON
Biology of Braeon mellitor, a parasite of the boll weevil.
8070

Estimating temperatures and heat flux in insect environments in stubbed cotton fields in the winter.
8121

Daily and seasonal density of four entomophagous predators on cotton in upper Egypt.
8130

A boll rot of cotton caused by Erwinia aroideae.
8298

Double your cotton yield by spraying.
8324

Control of the boll weevil by mechanically destroying fallen infested cotton squares.
8331

Biological studies on Amblyseius aleyrodis a predator of the cotton whitefly (Acarina, Phytoseiidae).
8338

Fifty years of research on the pink bollworm in the United States.
8365

Pesticide drift. I. High-clearance vs. aerial application of sprays.
8533

COTTON GINNING
Fifty years of research on the pink bollworm in the United States.
8365

COTTONSEED
Collaborative study on the determination of aflatoxins in cottonseed products.
8520

COWPEAS
An electron microscopy study of the penetration of tobacco mosaic virus into leaves following experimental inoculation.
8292

Identification of viruses isolated from cowpeas in Alabama.
8295

CRANBERRIES
Effect of dichlobenil on anthocyanin development in Vaccinium macrocarpon (var. early black).
8578

CRINKLE
Effect of crinkle-scurf of citrus on tree growth, productivity, and fruit quality.
8312

CRONARTIUM RIBICOLA
The ineffectiveness of cycloheximide and phytoactin as chemical controls of the blister rust disease.
8301

CROP ESTIMATES
Assessment of rice loss caused by the rice stem borer.
8353

Techniques for assessing crop losses caused by rice stem borers in tropical areas.
8354

CROP LOSSES
Color and natural products attracting the adult sugarbeet root maggot in Southcentral Idaho.
8197

Assessment of rice loss caused by the rice stem borer.
8353

Techniques for assessing crop losses caused by rice stem borers in tropical areas.
8354

Ecology of common insect pests of rice.
8368

CROP ROTATION
Control of paddy stem borers by cultural practices.
8319

CROP VARIETIES
Effects of increased pollinator levels on production of the highbush blueberry, Vaccinium corymbosum.
8089

Resistance of strawberry varieties to leaf scorch disease.
8314

CROP YIELDS
Effects of increased pollinator levels on production of the highbush blueberry, Vaccinium corymbosum.
8089

Viruses-agents of disease.
8281

Grain aphids in New brunswick. IV. Effects of malathion and 2,4-D amine on aphid populations and on yields of oats and barley.
8320

Corn borer outlook.
8321

Double your cotton yield by spraying.
8324

Effect of paraquat in the establishment of alfalfa.
8392

Pre-harvest use of chemicals in potato production.
8403

Time of application of EPTC for nutgrass control in potatoes.
8421

Methods of weed control in sugar beets.
8432

Weed control in sugar beets with preemergence herbicides.
8436

Weed control in white potatoes with preemergence herbicides.
8437

Weed and crop responses to herbicides applied with various cultural practices and at different stages of potato growth.
8441

CROPS
Formulation studies with ioxynil and bromoxynil. (abstract).
8409

Modification of the carbon disulfide evolution method for dithiocarbamate residues.
8604

CRUCIFERAE
Host-parasite relationships of various plants and the hop cyst nematode, Heterodera humuli.
8391

CRYPTOSTROMA CORTICALE
Occurrence of Cryptostroma corticale in Northwestern United States.
8294

CUCUMBERS
Identification of viruses isolated from cowpeas in Alabama.
8295

A new symptom of gummy stem blight (Mycosphaerella melonis) on cucumber fruit.
8315

Effect of CP31393 on auxin-induced growth.
8579

CUCURBITACEAE
Host-parasite relationships of various plants and the hop cyst nematode, Heterodera humuli.
8391

CULEX
The susceptibility of Culex pipiens molestus forskal in Israel to several insecticides in 1958-1960 and in 1965.
8272

CULEX PIPIENS
On the positional specificity of phospholipase A of certain species of mosquitoes.
8172

CULEX PIPIENS PALLENS
On the effect of synthetic synergists upon the knockdown speed of pyrethroids against larvae of the common house mosquito, Culex pipiens pallens Coquillett.
8158

CULEX PIPIENS QUINQUEFASCIATUS
The effect of larval density on mortality of Culex pipiens fatigans due to DDT and dieldrin.
8137

CULEX SALINARIUS
A polyhedrosis in Culex salinarius of Louisiana.
8098

CULEX TARSALIS
Mosquito control in and around homes and farmsteads.
8274

CULICIDAE
Developmental changes in the protein constitution of a mosquito (Armigeres subalbatus) as revealed by disc electrophoresis.
8106

Mosquito control in and around homes and farmsteads.
8274

Syncytia formation of mosquito cell cultures mediated by type 2 dengue virus.
8480

CULTURAL CONTROL (INSECTS)
Bionomics of Siricidae.
8162

Mosquito control in and around homes and farmsteads.
8274

Control of paddy stem borers by cultural practices.
8319

Control of the boll weevil by mechanically destroying fallen infested cotton squares.
8331

The possible role of biotic factors in an integrated program for rice stem borer control.
8364

Fifty years of research on the pink bollworm in the United States.
8365

Ecology of common insect pests of rice.
8368

The rice gall midge Pachydiplosis oryzae (Wood-Mason).
8371

CULTURAL CONTROL (PLANT DISEASES)
Save your potato crop from fungal and bacterial diseases.
8286

CULTURE MEDIA
Syncytia formation of mosquito cell cultures mediated by type 2 dengue virus.
8480

CURCULIONIDAE
Contribution to the knowledge of the Curculionidae from the western Mediterranean. VI. The genus Seidlitzia.
8036

Observations on the functional anatomy of the reproductive organs of Sitophilus (Coleoptera: Curculionidae).
8145

Observations on Strophosomus melanogrammus (Forst.), Polydrosus marginatus Steph. and Otiorrhynchus armadillo (Rossi) (Coleoptera Curculionidae), pests of Pseudotsuga douglasii Carr. in Tuscany.
8333

Insecticide treatment of seed, as a control method of the maize leaf weevil (Tanymecus dilaticollis Gyll.).
8369

CURLY TOP
Restricted local spread of curly top in tomatoes.
8332

CUTICLE
Cuticular pigments of tobacco hornworm (Manduca sexta) larvae: Effects of diet and genetic differences.
8100

Toxicology and physiology of DDT resistance in the German cockroach.
8138

Haemocyte activity in relation to epidermal cell growth, cuticle secretion, and cell death in a metamorphosing cyclorrhaphan pupa.
8212

Purification and immunochemical analysis of a genus-specific cuticular antigen of Toxocara canis.
8502

CYCLOHEXIMIDE
The ineffectiveness of cycloheximide and phytoactin as chemical controls of the blister rust disease.
8301

CYNIPIDAE
A new species of gall-wasp (Hymenoptera: Cynipidae) from Scotland.
8050

CYNODON DACTYLON
Effect of organic and inorganic nitrogen on nematode populations on turf.
8383

CYPERUS ESCULENTUS
Time of application of EPTC for nutgrass control in potatoes.
8421

CYTOGENETICS
Cytotaxonomy of Aphididae.
8051

Y-Autosome translocations in Drosophila.
8220

Chromosome aberrations associated with recessive sex-linked lethals induced by two alkylating chemicals in mature spermatozoa of Drosophila.
8245

Cytogenetic effects of hydrogen fluoride on Drosophila melanogaster.
8251

X-ray induced reversal of heterochromatization in male mealy bugs.
8256

Association of somatic cell lesions with 3-bromodeoxyoridine incorporation in DNA of Drosophila.
8263

CYTOLOGY
Investigations of the morphology and development of the scolopidia in the stick insect Carausius morosus Br.
8141

New ultracytological findings in insect nuclear polyhedroses.
8152

Haemocyte activity in relation to epidermal cell growth, cuticle secretion, and cell death in a metamorphosing cyclorrhaphan pupa.
8212

Lamphrush chromosomes and multiple nucleoli of Orthoptera.
8239

Tobacco mosaic virus in dividing mesophyll cells of Nicotiana.
8290

RNA synthesis in chick embryo cells infected with defferent strains of NDV.
8449

Study of the plasmocytic reaction in experimental brucellosis infection.
8451

Autoradiographic study of the effect of Newcastle disease virus on the mitotic cycle of cells.
8456

Syncytia formation of mosquito cell cultures mediated by type 2 dengue virus.
8480

Parasites as biological models.
8507

CYTOPLASM
Insecticide-cytoplasmic interactions in insects and vertebrates.
8203

Sonless, a sex-ratio anomaly in Drosophila melanogaster caused by an interaction of cytoplasm and a sex-linked gene.
8224

D, 2,4-
Grain aphids in New brunswick. IV. Effects of malathion and 2,4-D amine on aphid populations and on yields of oats and barley.
8320

Some ecological benefits of woody plant control with herbicides.
8395

Some ecological benefits of woody plant control with herbicides.
8396

Control and elimination of noxious weeds.
8404

The response of brush to picloram, dicamba, 2,3,6-TBA and phenoxy herbicides.
8435

Preliminary studies of the effects of cacodylic acid on the activity of 2,4-D and picloram in bean plants. (abstract).
8438

The air pollution menace of ragweed pollen.
8526

Effect of CP31393 on auxin-induced growth.
8579

Influence of 2,4-D and streptomycin on the nitrogen metabolism of buckwheat seedlings and its relation to the anthocyanin biosynthesis.
8587

DAIRY EQUIPMENT
A continously recording flight mill for investigating the effect of volatile substances on the flight of teathered insects.
8087

Control of the boll weevil by mechanically destroying fallen infested cotton squares.
8331

A variation of plastic enclosure for field-testing aquatic herbicides.
8410

Pesticide drift. I. High-clearance vs. aerial application of sprays.
8533

DAIRY PRODUCTS
Pesticide residues in food.
8535

Rapid cleanup of dairy products for analysis of chlorinated insecticide residue by electron capture gas chromatography.
8546

DALAPON
Control and elimination of noxious weeds.
8404

Effect of forage processing on dalapon residue.
8548

DATES
Survey and distribution of common lady beetles (Col. Coccinellidae) on date palm trees in Israel.
8042

DDT
The selective control of simulium larvae by particulate insecticides and its significance in river management.
8020

Azodrin for corn earworm and fall armyworm control and its persistance in sweet corn.
8069

Controlling wasps.
8071

The old house borer in Eastern States.
8076

Practical importance of resistance to insecticides in Anopheles.
8099

The biology of the European corn borer, Ostrinia nubilalis (Hubner), in Manitoba.
8127

The length of larval stage in Pyrethroid-resistant and susceptible strains of the house fly, Musca domestica L.
8131

The effect of larval density on mortality of Culex pipiens fatigans due to DDT and dieldrin.
8137

Toxicology and physiology of DDT resistance in the German cockroach.
8138

Persistence of resistant populations after the relaxation of the selection pressure.
8144

Research on bio-ecology of Sitona crinitus (Herbst) and method for chemical control.
8148

Anopheles moucheti in Cameroon.
8163

Absorption of DDT and metabolism of DDT and related compounds by DDT-RESISTANT codling moths.
8180

Dieldrin resistance in Lucilia sericata (Meig) from Co. Dublin, Eire.
8188

Insecticide-cytoplasmic interactions in insects and vertebrates.
8203

Comparison tests between various active ingredients employed during 1966 in the control of the flea beetle of the beet (Chaetocnema tibialis).
8208

The susceptibility of Culex pipiens molestus forskal in Israel to several insecticides in 1958-1960 and in 1965.
8272

Practical importance of insecticide resistance for malaria eradication in tropical Africa.
8273

Technical problems of malaria eradication in Africa.
8275

Entomological factors in persisting transmission of malaria in eradication programs.
8276

Double your cotton yield by spraying.
8324

Forest entomology.
8328

Chemicals that take care of the mango hopper.
8329

Neodiprion taedae linearis: A sawfly pest of loblolly and shortleaf pines.
8334

Natural enemies of Laspeyresia pomonella L. (Lepidoptera, Tortricidae) and the effect of chemical treatment on their useful activity.
8342

Cabbage looper control in Florida - a cooperative program.
8345

Experiments on the insecticidal control of Oxycanus fuscomaculatus Walker (Lepidoptera: Hepialidae).
8348

Distribution of insecticides sprayed by airplane on an irrigated corn plot. in: Organic pesticides in the environment; symposium...American Chemical Society, Atlantic City, N.J., Sept. 13-15, 1965. robert J. gould, ed.
8350

Developments in insecticide control of the rice stem borer in Japan.
8356

Rice leafhoppers.
8363

Fifty years of research on the pink bollworm in the United States.
8365

Recent developments in and future prospects for the chemical control of the rice stem borer in India.
8370

Some recommendations for the control of perforators of seeds of Anonaceae (Bephrata sp. order Hymenoptera).
8372

Apple chalcid, Torymus varians (Wlk.), (Hymenoptera: Torymidae), in Quebec.
8373

Investigations on the biology and control of Melolontha melolontha in hazelnut plantations.
8377

Seed dressings and game birds.
8444

Evidence for conversion of DDT to TDE in rat liver: I. Liver/body fat ratios of TDE.
8472

The significance of DDT in household and structural pest control - 1969.
8523

Techniques and preliminary data of the movement of DDT and Zectran through a forest soil.
8525

Identification and measurement of chlorinated organic pesticides in water by electron-capture gas chromatography.
8527

Identification and measurement of chlorinated organic pesticides in water by electron-capture gas chromatography.
8528

Determination of pesticides in water by microcoulometric gas chromatography after liquid-liquid extraction.
8530

Persistence of pesticides in orchards and orchard soils.
8531

Persistence of pesticides in orchards and orchard soils. in; Organic pesticides in the environment; symposium...American Chemical Society, Atlantic City, N.J., Sept. 13-is, 1965. robert J. gould, ed.
8532

Pesticide residues in food.
8535

Residue tolerances set for DDT in milk.
8536

Chlorinated insecticides in the body fat of people in the United States.
8538

Co-distillation clean-up for DDT residues estimation.
8539

Tolerances of three species of anuran amphibians to five chlorinated hydrocarbon insecticides.
8541

Distribution of insecticides sprayed by airplane on an irrigated corn plot.
8543

Rapid cleanup of dairy products for analysis of chlorinated insecticide residue by electron capture gas chromatography.
8546

Improved extraction of chlorinated hydrocarbon pesticides from animal tissues.
8547

DDT. in: Zweig, Analytical methods for pesticides, plant growth regulators, and food additives. vol. ii. insecticides.
8549

The toxicity and sublethal effects of p p'-DDT and dieldrin to Aglais urticae (L.) (Lepidoptera: Nymphalidae) and Chorthippus brunneus (Thunberg) (Saltatoria:Acrididae).
8550

Note on improved extraction for chlorinated pesticide residues in oysters.
8551

DDT residues in Adelie penguins and a crabeater seal from Antarctica.
8552

Secretion of DDT by lactating cows fed thyroprotein.
8553

Residues of DDT and it's derivatives in the fat tissues of some market animals.
8554

Residuals of pesticides in cultivated mushrooms.
8556

DDT reduces photosynthesis by marine phytoplankton.
8557

The effects of an acute DDT exposure on the spontaneous electrical activity of goldfish cerebellum.
8558

Kinetics of Cl-36 DDT in wild waterfowl.
8561

Insecticide-resistant fishes: A potential hazard to consumers.
8562

Response of robins to DDT and methoxychlor.
8565

Fish losses after forest sprayings with insecticides in New Brunswick, 1952-62, as shown by caged specimens and other observations.
8567

Mode of action of insecticide synergists.
8569

Biochemical changes in rat liver in response to treatment with drugs and other agents--II. effects of halothane, DDT, other chlorinated hydrocarbons, thioacetamide, dimethylnitrosamine and ethionine.
8571

Distribution of pesticide residues in human body tissues from Montgomery County, Ohio. in: Organic pesticides in the environment; symposium...American Chemical Society Atlantic City, N.J., Sept. 13-15, 1965. robert J. Gould, ed.
8573

Role of intestinal microflora in the degradation of DDT by rainbow trout (Salmo gairdneri).
8575

Respiratory exposure of dairy animals to pesticides. in: Organic pesticides in the environment; symposium...American Chemical Society, Atlantic City, N.J., Sept. 13-15, 1965. robert J. gould, ed.
8576

Studies on the effect of sulfuric-fuming nitric acid treatment on the analytical characteristics of toxaphene.
8603

The control of technology. solandt, o m.
8615

DECAY
Notes on fungi responsible for the decay of hickory nuts.
8284

DECOMPOSITION
The absorption and accumulation of atrazine in barnyardgrass at various stages of development.
8542

Mode of action, translocation, oxidation, and decomposition of insecticides within the rice plants.
8581

DEFICIENCY DISEASES
The development of lesions in vitamin A-deficient adult fowl.
8458

Diseases of mink.
8466

DEFOLIANTS
Some ecological benefits of woody plant control with herbicides.
8396

Forest chemi-thinning with cacodylic acid - a progress report.
8424

Potato vine killing in Maine - 1966.
8425

Preliminary studies of the effects of cacodylic acid on the activity of 2,4-D and picloram in bean plants. (abstract).
8438

DEFOLIATION
Pelleted fenuron for conversion of low-quality hardwood stands to Japanese larch.
8433

Process for desiccating plants. Patent 3,454,390.
8434

DEGRADATION
Degradation of turnip yellow mosaic virus by freezing and thawing in vitro: a new method for studies on the internal organization of the viral components and for isolating native RNA.
8299

Degradation of parathion in the rat.
8570

DEGUELIN
Thin layer densitometric determination of rotenone and deguelin.
8597

DELPHACIDAE
A revision of Idiosystatus Berg (Homoptera: Fulgoroidea, Delphacidae).
8030

Ecology of common insect pests of rice.
8368

DENDROCTONUS PSEUDOTSUGAE
A continously recording flight mill for investigating the effect of volatile substances on the flight of teathered insects.
8087

DENDROCTONUS TEREBRANS
How to distinguish attacks by the black turpentine beetle and Dioryctria amatella on southern pines.
8339

DENGUE (MAN)
Syncytia formation of mosquito cell cultures mediated by type 2 dengue virus.
8480

DEOXYRIBONUCLEASES
Correlation of nucleolytic activities with the stage of growth of the silkworm.
8151

DNase as a component of multi-enzyme complexes in the blood of saturniid moths.
8175

DEOXYRIBONUCLEIC ACID
Biochemistry and taxonomy.
8060

Quantitative determination of DNA content during formation of one of the puffs and one of the Balbiani rings in Chironomus dorsalis.
8264

Morphological and histochemical studies on the larval stages of Metastrongylus spp. (lungworms of swine) in the earthworm intermediate host, Eisenia foetida, Savigny 1826.
8506

On the mechanization of radiosensitization by 5-bromouracil. Studies on 60Co-gamma irradiated phage phi X-174 and its single-stranded infectious DNA.
8599

DERMACENTOR
Host-parasite interactions and the feeding of blood-sucking arthropods.
8490

DEVELOPMENT
Development of controlled conditions for the study of red stele disease on strawberries.
8216

DIAGNOSIS
Effect of crinkle-scurf of citrus on tree growth, productivity, and fruit quality.
8312

A new symptom of gummy stem blight (Mycosphaerella melonis) on cucumber fruit.
8315

Bovine vibriosis.
8478

Examination of antibodies and of hemagglutines, complete and incomplete for the diagnosis of Salmonella typhimurium infections.
8563

DIAPAUSE
Biological investigations on Pandemis heparana (Den. and Schiff.) with special consideration given to the factors inducing diapause and influencing egg laying.
8155

Air swallowing- an effective protection against drowning in larvae of Epistrophe balteata (Syrphidae Dipt.).
8185

DIASPIDIDAE
New perspectives in the control of Aonidiella aurantii of Morocco (Hom., Diaspididae).
8327

DIAZINON
Comparison tests between various active ingredients employed during 1966 in the control of the flea beetle of the beet (Chaetocnema tibialis).
8208

The susceptibility of Culex pipiens molestus forskal in Israel to several insecticides in 1958-1960 and in 1965.
8272

Corn borer outlook.
8321

Neodiprion taedae linearis: A sawfly pest of loblolly and shortleaf pines.
8334

Residues of diazinon on field corn treated with granular, capsular, and ULV formulations for control of the European corn borer.
8346

Distribution of insecticides sprayed by airplane on an irrigated corn plot. in: Organic pesticides in the environment; symposium...American Chemical Society, Atlantic City, N.J., Sept. 13-15, 1965. robert J. gould, ed.
8350

Insecticide treatment of seed, as a control method of the maize leaf weevil (Tanymecus dilaticollis Gyll.).
8369

Ovicidal efficiency of parathion and diazion for quarantine treatment of the Western tent caterpillar.
8376

Determination of pesticides in water by microcoulometric gas chromatography after liquid-liquid extraction.
8530

Distribution of insecticides sprayed by airplane on an irrigated corn plot.
8543

Residuals of pesticides in cultivated mushrooms.
8556

DIBROMO-3-CHLOROPROPANE, 1,2-
Multiple applications of 1,2-dibromo-3-chloropropane for control of nematodes in established rose plantings.
8384

DICAMBA
The response of brush to picloram, dicamba, 2,3,6-TBA and phenoxy herbicides.
8435

DICHLOBENIL
Licorice-root - dichlobenil mulch combination for control of weeds in boxwood plantings.
8406

Effect of dichlobenil on anthocyanin development in Vaccinium macrocarpon (var. early black).
8578

DICHLOROPHENOXY)BUTYRIC ACID, 4-(2,4-
Control of annual weeds in spring-seeded alfalfa with preplant, preemergence, and postemergence herbicides.
8413

DICHLORVOS
Practical importance of resistance to insecticides in Anopheles.
8099

Mosquito control in and around homes and farmsteads.
8274

Shell's versatile products Aldrite 4, Dieldrite 1.5 Vaponite 2 formulated for all P.C.O. business.
8613

DIEBACK
Pathological changes in the trunk of Prunus armeniaca L. and their relationship to the premature death of apricots. I. Investigations in the area of wood structure.
8308

DIELDRIN
The old house borer in Eastern States.
8076

Practical importance of resistance to insecticides in Anopheles.
8099

The effect of larval density on mortality of Culex pipiens fatigans due to DDT and dieldrin.
8137

Anopheles moucheti in Cameroon.
8163

Dieldrin resistance in Lucilia sericata (Meig) from Co. Dublin, Eire.
8188

The susceptibility of Culex pipiens molestus forskal in Israel to several insecticides in 1958-1960 and in 1965.
8272

Practical importance of insecticide resistance for malaria eradication in tropical Africa.
8273

Entomological factors in persisting transmission of malaria in eradication programs.
8276

Insecticide treatment of seed, as a control method of the maize leaf weevil (Tanymecus dilaticollis Gyll.).
8369

Effects of pesticides on raw wastewater.
8524

Identification and measurement of chlorinated organic pesticides in water by electron-capture gas chromatography.
8527

Identification and measurement of chlorinated organic pesticides in water by electron-capture gas chromatography.
8528

Determination of pesticides in water by microcoulometric gas chromatography after liquid-liquid extraction.
8530

Dieldrin effects in two generations of penned hen pheasants.
8537

Chlorinated insecticides in the body fat of people in the United States.
8538

Tolerances of three species of anuran amphibians to five chlorinated hydrocarbon insecticides.
8541

Rapid cleanup of dairy products for analysis of chlorinated insecticide residue by electron capture gas chromatography.
8546

Improved extraction of chlorinated hydrocarbon pesticides from animal tissues.
8547

The toxicity and sublethal effects of p p'-DDT and dieldrin to Aglais urticae (L.) (Lepidoptera: Nymphalidae) and Chorthippus brunneus (Thunberg) (Saltatoria:Acrididae).
8550

Distribution of pesticide residues in human body tissues from Montgomery County, Ohio. in: Organic pesticides in the environment; symposium...American Chemical Society Atlantic City, N.J., Sept. 13-15, 1965. robert J. Gould, ed.
8573

Shell's versatile products Aldrite 4, Dieldrite 1.5 Vaponite 2 formulated for all P.C.O. business.
8613

DIET
Mass rearing of the rice stem borer.
8119

Nutritional studies of the rice stem borer Chilo suppressalis Walker.
8140

The development of lesions in vitamin A-deficient adult fowl.
8458

Effect of biotin deficiency on food intake and body and organ weights of male albino rats.
8473

DIETHYL PHOSPHOROTHIOIC ACID
Degradation of parathion in the rat.
8570

DIFFUSION
On the common protein determinants of Enterobacteriaceae.
8594

DIGITARIA
Performance of preemergence herbicides in 1967 on Merion Kentucky bluegrass turf.
8407

Effectiveness of preemergence crabgrass herbicides for lawns and putting-green turf.
8417

DIHYDRO-5-CARBOXAMIDO-6-METHYL-1,4-OXATHIIN, 2,3-
Stimulation of plant growth. Patent 3,454,391.
8592

DIHYDRO-5-CARBOXANILIDO-6-METHYL-1,4-OXATHIIN-4,4-DIOXIDE, 2
Stimulation of plant growth. Patent 3,454,391.
8592

D
Stimulation of plant growth. Patent 3,454,391.
8592

DIMETHOATE
Double your cotton yield by spraying.
8324

Neodiprion taedae linearis: A sawfly pest of loblolly and shortleaf pines.
8334

Ovicidal efficiency of parathion and diazion for quarantine treatment of the Western tent caterpillar.
8376

Residuals of pesticides in cultivated mushrooms.
8556

DIMETHYL 2,3,5,6-TETRACHLOROTEREPHTHALATE
Postemergence control of Veronica filiformis with DCPA.
8430

DIMETHYL-S-(2-OXO-3-AZA-BUTYL)-PHOSPHOROTHIOATE, O,O
Viruses-agents of disease.
8281

DIORYCTRIA AMATELLA
How to distinguish attacks by the black turpentine beetle and Dioryctria amatella on southern pines.
8339

DIPHENAMID
The effect of diphenamid on the uptake and distribution of macronutrient elements in cabbage.
8305

Control of annual weeds in spring-seeded alfalfa with preplant, preemergence, and postemergence herbicides.
8413

A study of the activity of diphenamid and three analogs. (ahstract).
8582

DIPHENYLACETAMIDE, 2,2-
A study of the activity of diphenamid and three analogs. (abstract).
8582

DIPHENYLACETIC ACID
A study of the activity of diphenamid and three analogs. (abstract).
8582

DIPLOCARPON EARLIANA
Resistance of strawberry varieties to leaf scorch disease.
8314

DIPOROTHECA RHIZOPHILA
A black mildew, of the genus Diporotheca, found on roots of Nicotiana tabacum in Connecticut.
8278

DIPTERA
Additions to the Cyrtosiinae (Bombyliidae) of South Africa.
8037

Insects and the problem of austral disjunctive distribution.
8092

A critical review of Bacillus thuringiensis var. Thuringiensis berliner and other crystalliferous bacteria.
8132

The embryogenesis of the larval head of Simulium venustum Say (Diptera: Nematocera).
8225

Quantitative determination of DNA content during formation of one of the puffs and one of the Balbiani rings in Chironomus dorsalis.
8264

DIQUAT
From weeds to pasture in one year.
8431

DISEASE TRANSMISSION
Technical problems of malaria eradication in Africa.
8275

Entomological factors in persisting transmission of malaria in eradication programs.
8276

DISULFOTON
Viruses-agents of disease.
8281

GLC determination of residues of disulfoton, oxydemetonmethyl, and their metabolites in tobacco plants.
8596

DITYLENCHUS
Serological and morphological studies on the inter- and intraspecific differences of the plant-parasitic nematodes Heterodera and Ditylenchus.
8514

DNA VIRUSES
The polypeptides of adenovirus. III. Synthesis in infected cells.
8487

DOGS
Fluorescent antibody staining of four Babesia species.
8467

Gastrointestinal nematodes of Venezuelan carnivora.
8492

DOMINANCE
Natural selection on the degree of dominance of viability polygenes in Drosophila melanogaster.
8254

DORCATOMINI
Notes about Anobiidae. XXXI. Genera of the Dorcatominae of the Ethiopian fauna.
8029

DOSAGE
Effect of carbon dioxide on toxicity of hydrocyanic acid and methyl bromide to adults of the confused flour beetle and granary weevil at two different temperatures.
8074

Research with ionizing irradiation on the sterilization and radiosensitivity of Chrysomela decemlineata Say.
8096

Effects of sub-lethal dosages of parathion and carbaryl on the biology of Dysdercus koenigii Fabricius.
8191

Preliminary laboratory study of the effect of X rays on the fertility of Carpocapsa pomonella (Laspeyresia pomonella L.).
8229

DROSOPHILA
Experiments on the description of the environments of an insect form (model and field experiments with Drosophila).
8085

Terminal respiration in minute mutations of Drosophila.
8114

Neoplasms of insects.
8129

Y-Autosome translocations in Drosophila.
8220

Genetic and environmental variability for bristles in Drosophila.
8227

The evolution and genetics of insect behaviour.
8228

The synaptomere-zygosome-recombinase hypothesis of meiotic crossing over in Drosophila.
8238

In vitro growth of the infective agent responsible for the Sex Ratio condition in Drosophila bifasciata.
8243

Genetic variability and competitive performance in species of Drosophila.
8244

Chromosome aberrations associated with recessive sex-linked lethals induced by two alkylating chemicals in mature spermatozoa of Drosophila.
8245

Maternal influence of the OUHI structural gene of octanol dehydrogenase in intra-and interspecfie hybrids of D. metzii, D. pellewae, and D. leticiae.
8257

The population genetics of insect introduction.
8260

DROSOPHILA MELANOGASTER
Aggregation of Drosophila embryonic cells and effects of proteolytie enzymes.
8077

The influence of Bacillus thuringiensis toxins on various physiological characters of Drosophila adults.
8104

Isolation and characterization of the ribosomal proteins of Drosophila melanogaster.
8147

Effect of irradiation on mating preference and reproduction suppression of Drosophila melanogaster.
8157

Phenoxazinone synthesis in Drosophila melanogaster.
8170

Analysis of sequences of matings in Drosophila mating chamber experiments.
8184

Phenylalanine induced enhancement of drosopterin formation in the eye color mutant or66k (orange) of Drosophila melanogaster.
8187

Activities in unfertilized and fertilized Drosophila eggs of enzymes in the nucleic acid biosynthetic pathway.
8194

Contrast perception in eye colour mutants of Drosophila melanogaster and Drosophila subobseura.
8211

Chromatographic comparison of pteridine levels in four white locus alleles of Drosophila melanogaster.
8218

The productivity of four inbred strains of Drosophila melanogaster.
8221

Allelic complementation and genetic fine structure at the rudimentary locus of Drosophila melanogaster.
8222

Sonless, a sex-ratio anomaly in Drosophila melanogaster caused by an interaction of cytoplasm and a sex-linked gene.
8224

Carnitine acetyltransferase in developing and mature sperm of wild-type and mutant Drosophila melanogaster.
8231

Induction of duplications of genes which specify enzymes in Drosophila melanogaster.
8232

Sterility, lethality and segregation ratios in XYY males of Drosophila melanogaster.
8233

Evidence for a transposable element which causes reversible gene inactivation in Drosophila melanogaster.
8234

The complementation map of mutations in a small region of the X-chromosome of Drosophila melanogaster.
8235

Multiple phene variegation of a pleiotropic gene of Drosophila melanogaster.
8246

Genetic mapping of behavioral mutants in Drosophila melanogaster by countercurrent distribution.
8249

Caffeine and radiation induced mutations in Drosophila melanogaster.
8250

Cytogenetic effects of hydrogen fluoride on Drosophila melanogaster.
8251

Effects of controlled heterozygosis on viability in Drosophila melanogaster.
8252

Relation between homozygous viability and average dominance in Drosophila melanogaster.
8253

Natural selection on the degree of dominance of viability polygenes in Drosophila melanogaster.
8254

Genetic and environmental influences upon the viability of Drosophila melanogaster metafemales.
8255

On the arrangement of genes of 28s and 18s ribosomal RNA'S in Drosophila melanogaster.
8259

Association of somatic cell lesions with 3-bromodeoxyoridine incorporation in ONA of Drosophila.
8263

The sS RNA genes of Drosophila melanogaster.
8267

New data on nondisjunction of the X chromosomes in females of Drosophila melanogaster.
8268

Genetic control of the iso-accepting forms of tyrosyl-tRna in a suppressor of Drosophila melanogaster.
8269

DROSOPHILA PAULISTORUM
Ultrastructural study of hybrid sterility in Drosophila paulistrom.
8237

The semispecies and the transitional populations of Drosophila paulistorum.
8242

DROSOPHILA ROBUSTA
Chromosome interactions affecting mating speed in Drosophila robusta.
8258

DROSOPHILA SIMULANS
Radiation induced increase in fitness in Drosophila simulans.
8219

DROSOPHILA SUBOBSCURA
Contrast perception in eye colour mutants of Drosophila melanogaster and Drosophila subobscura.
8211

DRUG RESISTANCE
Drug resistance in Eimeria tenella. IX. Effect of acriflavine-mediated reversion on reacquisition of resistance to amprolium.
8470

DRUG THERAPY
Activity of parbendazole upon Trichinella spiralis in mice.
8508

Biochemical changes in rat liver in response to treatment with drugs and other agents--II. effects of halothane, DDT, other chlorinated hydrocarbons, thioacetamide, dimethylnitrosamine and ethionine.
8571

DRUGS
Method of treating influenza viral infection. patent 3,459,861.
8445

DUCKS
Survival of sporozoites of Leucocytozoon in birds for 11 days.
8462

DUSTING
Insecticide treatment of seed, as a control method of the maize leaf weevil (Tanymecus dilaticollis Gyll.).
8369

DYSDERCUS KOENIGI
Effects of sub-lethal dosages of parathion and carbaryl on the biology of Dysdercus koenigii Fabricius.
8191

DYSENTERY
Precise identification of the strain called Shigella paradysenteriae Y6R or Flexneri Y6R (Burnet).
8483

EARLY BLIGHT
Save your potato crop from fungal and bacterial diseases.
8286

ECDYSONE
Effects of ecdysones on diapause in the European corn borer, Ostrinia nubilalis.
8083

Ecdysone titres in the last larva adult stages of the milkweed bug.
8115

ECHINOCHLOA CRUSGALLI
The absorption and accumulation of atrazine in barnyardgrass at various stages of development.
8542

ECHINOCOCCOSIS
The antigenic composition of various preparations of fertile hydatic cysts analyzed by immunodiffusion and immunoelectrophoresis.
8509

ECHINOCOCCUS GRANULOSUS
Parasites as biological models.
8507

ECOLOGY
DDT reduces photosynthesis by marine phytoplankton.
8557

ECONOMICS
Some ecological benefits of woody plant control with herbicides.
8395

Biology and economic importance of the chigger Neoschongastia americana on turkeys.
8489

EGG WHITES
Effect of biotin deficiency on food intake and body and organ weights of male albino rats.
8473

EGGS
Activities in unfertilized and fertilized Drosophila eggs of enzymes in the nucleic acid biosynthetic pathway.
8194

Attempt to detect fowl leukemia virus in living virus vaccines prepared in eggs.
8465

Population studies on the infective stage of some nematode parasites of sheep. III. The distribution of strongyloid egg output in flocks of sheep.
8493

Quantitative aspects of lipid utilization during embryogenesis of Ascaris suum eggs.
8503

A method for the recovery of nematode eggs from faeces.
8513

Malathion-induced teratisms in the developing chick.
8564

Structure-activity and metabolism studies on organophosphate teratogens and their alleviating agents in developing hen eggs with special emphasis on Bidrin.
8572

Comparison of four extraction and cleanup procedures for chlorinated pesticide residues in eggs.
8610

EIMERIA TENELLA
Drug resistance in Eimeria tenella. IX. Effect of acriflavine-mediated reversion on reacquisition of resistance to amprolium.
8470

Ultrastructural studies on the sporozoite of Eimeria tenella.
8476

ELATERIDAE
How to control insects on field tobacco.
8347

ELECTRICAL RESISTANCE
The electrical resistivity of suspensions of mycobacteria. Comparative study on various species. Taxonomic applications.
8611

ELECTRON MICROSCOPES
Microtubules in the spermatids of the silkworm (Bombyx mori L.).
8102

ELECTRON MICROSCOPY
The connective tissues of insects.
8078

New ultracytological findings in insect nuclear polyhedroses.
8152

Formation of tumorlike lesions in the cockroach Leucophaea maderae after nerve severance.
8199

Haemocyte activity in relation to epidermal cell growth, cuticle secretion, and cell death in a metamorphosing cyclorrhaphan pupa.
8212

An electron microscopy study of the penetration of tobacco mosaic virus into leaves following experimental inoculation.
8292

Glomerular response in human and experimental rickettsial disease (Rocky Mountain spotted fever group). A light and electron microscopy study.
8450

Ultrastructural studies on the sporozoite of Eimeria tenella.
8476

Observations on the nephridial system of the cestode Moniezia expansa (Rud., 1805).
8499

The excretory system of the kidney worm Stephanurus dentatus (Nematoda).
8512

The fine structure of the protonephridial system in the miracidium of Fasciola hepatica.
8515

ELECTROPHORESIS
Developmental changes in the protein constitution of a mosquito (Armigeres subalbatus) as revealed by disc electrophoresis.
8106

DNase as a component of multi-enzyme complexes in the blood of saturniid moths.
8175

Maternal influence of the OUH1 structural gene of octanol dehydrogenase in intra-and interspecific hybrids of D. metzii, D. pellewae, and D. leticiae.
8257

The sS RNA genes of Drosophila melanogaster.
8267

Studies on mouse leukemia viruses. I. Isolation and characterization of a group-specific antigen.
8477

Hemoglobins of parasitic nematodes. II. Electrophoretic analysis of the multiple hemoglobins of adults and developmental stages of the rabbit stomach worm, Obeliscoides cuniculi.
8495

The antigenic composition of various preparations of fertile hydatic cysts analyzed by immunodiffusion and immunoelectrophoresis.
8509

ELECTROPHYSIOLOGY
Chemosensory bases of host plant selection.
8186

The effects of an acute DDT exposure on the spontaneous electrical activity of goldfish cerebellum.
8558

EMBRYOLOGY
The embryogenesis of the larval head of Simulium venustum Say (Diptera: Nematocera).
8225

The embryology of Lytta viridana Le Conte (Coleoptera: Meloidae). IV. Chromatin elimination.
8261

RNA synthesis in chick embryo cells infected with defferent strains of NDV.
8449

Enhancement and inhibition of avian sarcoma viruses by polycations and polyanions.
8484

Malathion-induced teratisms in the developing chick.
8564

EMBRYOS
Effect of 5-fluorouacil and 5-bromo-2'-deoxyuridine on the induction of thymidine kinase in polyoma virusinfected mouse embryo cells.
8488

EMPOASCA FLAVESCENS
The presence in the vineyards of the Tessin of a nearctic cicadella, new for Switzerland, Scaphoideus littoralis Ball (Hom.Jassidae) a possible carrier of yellow flavescence.
8325

ENCYRTIDAE
Observations on brachypterism in Encyrtus rufulus Mercet (Hym. Chalcidoidea, Encyrtidae).
8021

Predators and parasites of Aphytis (Hym., Aphelinidae).
8206

ENDOCRINE GLANDS
Endocrine control of reproduction in insects.
8113

The role of the neurohormones in the sexual differentiation of Lampyris noctiluca.
8165

ENDOSULFAN
Pollen gathering of honey bees reduced by pesticide sprays.
8205

ENDRIN
Double your cotton yield by spraying.
8324

Effects of pesticides on raw wastewater.
8524

Identification and measurement of chlorinated organic pesticides in water by electron-capture gas chromatography.
8527

Identification and measurement of chlorinated organic pesticides in water by electron-capture gas chromatography.
8528

Tolerances of three species of anuran amphibians to five chlorinated hydrocarbon insecticides.
8541

Rapid cleanup of dairy products for analysis of chlorinated insectieide residue by electron capture gas chromatography.
8546

Insecticide-resistant fishes: A potential hazard to eonsumers.
8562

ENTEROBACTERIACEAE
On the eommon protein determinants of Enterobacteriaceae.
8594

ENTOMOGENOUS BACTERIA
Honey bee pathology.
8079

ENTOMOGENOUS FUNGI
Honey bee pathology.
8079

Impact of pathogens, parasites, and predators on aphids.
8126

Entomophthora pyriformis sp. n. a fungus parasite of the Aphididae.
8204

An epizootic disease of Tarichium (Entomophthoraceae) on the larvae of Ocnogyna parasita Hbn. (Lepidoptera, Arctiidae).
8215

Seeondary effeets of entomophagous fungi on humans and vertebrates: Actual cases.
8471

ENTOMOPHTHORA
Entomophthora pyriformis sp. n. a fungus parasite of the Aphididae.
8204

ENTOMOPHTHORA CORONATA
Secondary effeets of entomophagous fungi on humans and vertebrates: Actual cases.
8471

ENTOMOPHTHORACEAE
An epizootic disease of Tarichium (Entomophthoraceae) on the larvae of Ocnogyna parasita Hbn. (Lepidoptera, Arctiidae).
8215

ENVIRONMENT
Estimating temperatures and heat flux in insect environments in stubbed cotton fields in the winter.
8121

The control of technology. solandt, o m.
8615

ENZYMES
Aggregation of Drosophila embryonic eells and effeets of proteolytie enzymes.
8077

Acid phosphatase activity in the digestive system of the desert locust Schistocerca gregaria (Forskal).
8166

Phenoxazinone synthesis in Drosophila melanogaster.
8170

DNase as a component of multi-enzyme complexes in the blood of saturniid moths.
8175

Activities in unfertilized and fertilized Drosophila eggs of enzymes in the nucleic acid biosynthetie pathway.
8194

Carnitine acetyltransferase in developing and mature sperm of wild-type and mutant Drosophila melanogaster.
8231

Induction of duplications of genes which specify enzymes in Drosophila melanogaster.
8232

The synaptomere-zygosome-recombinase hypothesis of meiotic crossing over in Drosophila.
8238

Maternal influence of the OUHI structural gene of octanol dehydrogenase in intra-and interspecfic hybrids of D. metzii, D. pellewae, and D. leticiae.
8257

Genetic control of the iso-accepting forms of tyrosyl-tRna in a suppressor of Drosophila melanogaster.
8269

Leukocyte system of rabbits reeeiving repeated injections of staphylococcal leukocidin.
8482

Effeet of 5-fluorouacil and 5-bromo-2'-deoxyuridine on the induction of thymidine kinase in polyoma virusinfected mouse embryo eells.
8488

Chitinase activity in developmental stages of Ascaris suum and its inhibition by antibody.
8504

Aldrin epoxidase activity of rat liver and rat liver microsomes under various conditions of storage.
8560

Bi-modal effect of piperonyl butoxide on the o- and p-hydroxylations of biphenyl by mouse liver microsomes.
8566

Degradation of parathion in the rat.
8570

Biochemical changes in rat liver in response to treatmcnt with drugs and other agents--II. effects of halothane, DDT, other chlorinated hydroearbons, thioaectamide, dimethylnitrosamine and ethionine.
8571

Structure-activity and metabolism studies on organophosphate teratogens and their alleviating agents in developing hen eggs with special emphasis on Bidrin.
8572

Isolation of the novel regulatory mutants of the tryptophan biosynthetic system in Eschericia coli.
8602

EPHYDRIDAE
The Old World species of the tribe Typopsilopini (Diptera: Ephydridae).
8066

EPIDEMIOLOGY
Occurrence of Cryptostroma corticale in Northwestern United States.
8294

Identification of viruses isolated from cowpeas in Alabama.
8295

Bacterial spot of tomato in United Arab Republic.
8304

Restricted local spread of curly top in tomatoes.
8332

EPISTROPHE BALTEATA
Air swallowing- an effective protection against drowning in larvae of Epistrophe balteata (Syrphidae Dipt.).
8185

EPITRIX HIRTIPENNIS
How to control insects on field tobacco.
8347

EPIZOOTIC DISEASES
An epizootic disease of Tarichium (Entomophthoraceae) on the larvae of Ocnogyna parasita Hbn. (Lepidoptera, Arctiidae).
8215

ERADICATION
Technical problems of malaria eradication in Africa.
8275

Entomological factors in persisting transmission of malaria in eradication programs.
8276

ERWINIA
Save your potato crop from fungal and bacterial diseases.
8286

ERWINIA AROIDEAE
A boll rot of cotton caused by Erwinia aroideae.
8298

ERWINIA CAROTOVORA
Bacterial top and stalk rot disease of corn in Wisconsin.
8297

ERWINIA CHRYSANTHEMI
Bacterial top and stalk rot disease of corn in Wisconsin.
8297

ERYSIPHE POLYGONI
Powdery mildew of hydrangeas.
8303

ESCHERICHIA COLI
Studies on the 5'-terminus of turnip yellow mosaic virus RNA.
8316

Effects of pestieides on raw wastewater.
8524

Isolation of the novel regulatory mutants of the tryptophan biosynthetic system in Eschericia coli.
8602

ESOPHAGUS
Perforation of the esophagus in a cat.
8479

ETHION
Distribution of insecticides sprayed by airplane on an irrigated corn plot. in: Organic pesticides in the environment; symposium...American Chemical Society, Atlantic City, N.J., Sept. 13-15, 1965. robert J. gould, ed.
8350

Distribution of insecticides sprayed by airplane on an irrigated corn plot.
8543

ETHIONINE
Biochemical changes in rat liver in response to treatment with drugs and other agents--II. effects of halothane, DDT, other chlorinated hydrocarbons, thioacetamide, dimethylnitrosamine and ethionine.
8571

ETHIOPIAN REGION
Notes about Anobiidae. XXXI. Genera of the Dorcatominae of the Ethiopian fauna.
8029

ETHYL METHANESULFONATE
The complementation map of mutations in a small region of the X-chromosome of Drosophila melanogaster.
8235

Genetic mapping of behavioral mutants in Drosophila melanogaster by countercurrent distribution.
8249

ETHYL N,N-DIPROPYLTHIOLCARBAMATE
Time of application of EPTC for nutgrass control in potatoes.
8421

Effectiveness of triazines and EPTC for weed control in seedling legumes.
8422

ETHYL O-2,4,5-TRICHLOROPHENYL ETHYLPHOSPHONOTHIOATE, O
Experiments on the insecticidal control of Oxycanus fuscomaculatus Walker (Lepidoptera: Hepialidae).
8348

ETHYLENE DIBROMIDE
Ethylene dibromide: a potent pesticide with high motagenic activity.
8302

ETHYLENE OXIDE
Control of European foulbrood disease of the honey bee.
8189

ETHYLENIMINE
Genetic and physiological effects of ethylenimine in Habrobracon females.
8270

ETHYLSULFINYL)ETHYL) O,O-DIMETHYL PHOSPHOROTHIOATE, S-(2-
Viruses-agents of disease.
8281

ETHYLTHIO)ETHYL O,O-DIMETHYL PHOSPHORODITHIOATE, S-(2-
Double your cotton yield by spraying.
8324

EUDECATOMA TROGOCARPI
Notes on some new or little known Chaleididae (Hym.).
8031

EULOPHIDAE
A new species of Tetrastichus Haliday, 1844 (Hymenoptera: Eulophidae) parasitic nymphs of Payrocephala calodendri Moran (Homoptera: Psyllidae).
8026

Notes on some new or little known Chalcididae (Hym.).
8031

Insect parasite complex berseem armyworm Spodoptera exigua (Hubn.) (Lepidoptera, Noctuidae).
8082

EUONYMUS EUROPAEUS
A study of the development of the giberellin content of embryos of Evonymus europaeus L., in the course of the stratification of seeds.
8584

EUPELMIDAE
Notes on some new or little known Chalcididae (Hym.).
8031

EUPHORBIA ESULA
Control and elimination of noxious weeds.
8404

EUPHORBIA MACULATA
Control of dandelion and spotted-spurge in lawn turf with herbicides.
8423

EUROPEAN FOULBROOD
Control of European foulbrood disease of the honey bee.
8189

EURYTOMIDAE
Notes on some new or little known Chalcididae (Hym.).
8031

Some recommendations for the control of perforators of seeds of Anonaceae (Bephrata sp. order Hymenoptera).
8372

EVALUATION
Evaluation of forest insect infestations.
8357

EVOLUTION
The evolution and genetics of insect behaviour.
8228

EXPERIMENTAL INSECTS
Artificial diets for larvae of the oriental fruit moth.
8209

EXTRACTION
Analysis of cocoa beans for aflatoxins.
8608

Comparison of four extraction and cleanup procedures for chlorinated pesticide residues in eggs.
8610

EXTRACTS
On the arrangement of genes of 28s and 18s ribosomal RNA'S in Drosophila melanogaster.
8259

EXUDATES
Plant treatment in relation to the rhizosphere effect. III. Foliar application of certain trace elements and metallic chelates in relation to the rhizosphere microflora of rice (Oryza sativa L.).
8588

EYES
Recent advances in bee communication and orientation.
8154

The role of the nervous system in insect morphogenesis and regeneration.
8168

Phenylalanine induced enhancement of drosopterin formation in the eye color mutant or66k (orange) of Drosophila melanogaster.
8187

Contrast perception in eye colour mutants of Drosophila melanogaster and Drosophila subobscura.
8211

FASCIOLA HEPATICA
The fine structure of the protonephridial system in the miracidium of Fasciola hepatica.
8515

FAT BODY
Relationship between the proteins of the haemolymph and fat body during development of Pieris brassicae.
8097

FATS
Evidence for conversion of DDT to TDE in rat liver: I. Liver/body fat ratios of TDE.
8472

FECES
Population studies on the infective stage of some nematode parasites of sheep. III. The distribution of strongyloid egg output in flocks of sheep.
8493

Population studies on the infective stage of some nematode parasites of sheep. II. The distribution of faecal deposits on fields grazed by sheep.
8494

A method for the recovery of nematode eggs from faeces.
8513

FEED
Prevalence of salmonellae in Virginia poultry flocks and in feed.
8468

Pesticide residues in food.
8535

Pesticide drift. II. Mist-blower vs. aerial application of sprays.
8555

FEED ADDITIVES
Automated determination of zoalene in feeds.
8452

Colorimetric determination of ronidazole in feeds.
8481

FEEDING
The response of a predator, Hypoaspis aculeifer (Canestrini) (Acarina:Laelapidae), to two species of prey.
8081

Chemosensory bases of host plant selection.
8186

FELTIA SUBTERRANEA
Cabbage looper control in Florida - a cooperative program.
8345

FENAC
Control of vascular tree diseases with trichlorophenyl acetic acids. Patent 3,458,640.
8306

FENTHION
Practical importance of resistance to insecticides in Anopheles.
8099

The susceptibility of Culex pipiens molestus forskal in Israel to several insecticides in 1958-1960 and in 1965.
8272

Experiments on the insecticidal control of Oxycanus fuscomaculatus Walker (Lepidoptera: Hepialidae).
8348

FENURON
Pelleted fenuron for conversion of low-quality hardwood stands to Japanese larch.
8433

FERTILITY
Influence of food on the fecundity of Chrysopa carnea Stephens (Neuroptera, Chrysopidae).
8196

Preliminary laboratory study of the effect of X rays on the fertility of Carpocapsa pomonella (Laspeyresia pomonella L.).
8229

Reciprocal fertility among five populations of Anopheles albimanus.
8236

Dieldrin effects in two generations of penned hen pheasants.
8537

The toxicity and sublethal effects of p p'-DDT and dieldrin to Aglais urticae (L.) (Lepidoptera: Nymphalidae) and Chorthippus brunneus (Thunberg) (Saltatoria:Acrididae).
8550

FERTILIZERS
Nutritional studies of the rice stem borer Chilo suppressalis Walker.
8140

Neck rot in onions.
8296

Control of paddy stem borers by cultural practices.
8319

From weeds to pasture in one year.
8431

FIELD CROPS
Chemical weed control in crops.
8427

FIELD STUDIES
Synecological studies on flies (Anthomyiini) in cultivated fields. (A contribution to agraroecology).
8190

FILBERTS
Investigations on the biology and control of Melolontha melolontha in hazelnut plantations.
8377

FISH
Studies on the behaviour of Lucilia illustris Meigen as a parasite of vertebrates under experimental conditions.
8103

Regulatory activities of the Connecticut State Board of Pesticide Control.
8529

Administration of aquatic nuisance control in Ontario.
8534

The effects of an acute DDT exposure on the spontaneous electrical activity of goldfish cerebellum.
8558

Insecticide-resistant fishes: A potential hazard to consumers.
8562

Fish losses after forest sprayings with insecticides in New Brunswick, 1952-62, as shown by caged specimens and other observations.
8567

Hazards of insecticides and residue problems in rice cultivation.
8574

FLAGELLA
Motion and flagellation of Clostridium brevifaciens.
8094

FLAX
Chemical weed control in crops.
8427

FLUORESCENCE
Influence of light on diapause in the boll weevil. Ii. Dependence of diapause response on narrow bands of visible radiation and a broad band of infrared radiation used to extend the photoperiod.
8128

Demonstration with indirect immunofluorescence of a cellular epsilon-antigen of the mouse.
8459

FLUORESCENCE MICROSCOPY
Fluorescent antibody staining of tobacco mosaic virus antigen in tobacco mesophyll protoplasts.
8307

FLUORESCENT ANTIBODY TECHNIC
Fluorescent antibody staining of tobacco mosaic virus antigen in tobacco mesophyll protoplasts.
8307

FLUOROURACIL, 5-
Effect of 5-fluorouacil and 5-bromo-2'-deoxyuridine on the induction of thymidine kinase in polyoma virusinfected mouse embryo cells.
8488

FOLIAR APPLICATION
Plant treatment in relation to the rhizosphere effect. III. Foliar application of certain trace elements and metallic chelates in relation to the rhizosphere microflora of rice (Oryza sativa L.).
8588

FOOD CONTAMINATION
Residue tolerances set for DDT in milk.
8536

Rapid cleanup of dairy products for analysis of chlorinated insecticide residue by electron capture gas chromatography.
8546

DDT. in: Zweig, Analytical methods for pesticides, plant growth regulators, and food additives. vol. ii. insecticides.
8549

Note on improved extraction for chlorinated pesticide residues in oysters.
8551

Secretion of DDT by lactating cows fed thyroprotein.
8553

Pesticide drift. II. Mist-blower vs. aerial application of sprays.
8555

FOOD HABITS
Chemosensory bases of host plant selection.
8186

FOOD NUTRITIVE VALUE
Effect of biotin deficiency on food intake and body and organ weights of male albino rats.
8473

FOOD POISONING
Insecticide-resistant fishes: A potential hazard to consumers.
8562

FORAGE PLANTS
Chemical weed control in crops.
8427

FOREST INSECTS
Fungal-insect mutualism in trees and timber.
8125

Anopheles moucheti in Cameroon.
8163

Forest entomology.
8328

Avian and mammalian predators of forest insects.
8330

Observations on Strophosomus melanogrammus (Forst.), Polydrosus marginatus Steph. and Otiorrhynchus armadillo (Rossi) (Coleoptera Curculionidae), pests of Pseudotsuga douglasii Carr. in Tuscany.
8333

Evaluation of forest insect infestations.
8357

FOREST SOILS
Techniques and preliminary data of the movement of DDT and Zectran through a forest soil.
8525

FORESTS
Influence of soil sterilization measures on the Mycorrhiza of forest plants. (I.).
8279

Some ecological benefits of woody plant control with herbicides.
8396

Forest chemi-thinning with cacodylic acid - a progress report.
8424

Fish losses after forest sprayings with insecticides in New Brunswick, 1952-62, as shown by caged specimens and other observations.
8567

FORMALDEHYDE
Save your potato crop from fungal and bacterial diseases.
8286

FORMICIDAE
Variation-statistical research on the female of Formica lugubris Zett.
8153

The alarm-defence system of the ant Lasius alienus.
8174

The role of short infra-red rays, on the egg laying workers of the ant Dolichoderus quadripunctatus L..
8200

Fire on fire ants .
8322

FORMOTHION
Double your cotton yield by spraying.
8324

FORMULATIONS
Double your cotton yield by spraying.
8324

Residues of diazinon on field corn treated with granular, capsular, and ULV formulations for control of the European corn borer.
8346

How to control insects on field tobacco.
8347

Fifty years of research on the pink bollworm in the United States.
8365

Control and elimination of noxious weeds.
8404

Formulation studies with ioxynil and bromoxynil. (abstract).
8409

Effect of several herbicides on flower production, growth and weed control in marigolds.
8590

Broadcast spraying.
8612

FREEZING
Degradation of turnip yellow mosaic virus by freezing and thawing in vitro: a new method for studies on the internal organization of the viral components and for isolating native RNA.
8299

Aldrin epoxidase activity of rat liver and rat liver microsomes under various conditions of storage.
8560

FROGS
Tolerances of three species of anuran amphibians to five chlorinated hydrocarbon insecticides.
8541

FRUIT
Notes on fungi responsible for the decay of hickory nuts.
8284

New species of Ceratocystis associated with bark injuries on deciduous fruit trees.
8289

Pathological changes in the trunk of Prunus armeniaca L. and their relationship to the premature death of apricots. I. Investigations in the area of wood structure.
8308

FUMIGANTS
Influence of soil sterilization measures on the Mycorrhiza of forest plants. (I.).
8279

FUMIGATION
Effect of carbon dioxide on toxicity of hydrocyanic acid and methyl bromide to adults of the confused flour beetle and granary weevil at two different temperatures.
8074

The old house borer in Eastern States.
8076

Topical, fumigation, and residual toxicity of insecticides to rice stem borers.
8374

Residuals of pesticides in cultivated mushrooms.
8556

FUNGI
Fungal-insect mutualism in trees and timber.
8125

Bionomics of Siricidae.
8162

Association among species of infrequent occurrence: The insect and spider fauna of Polyporus betulinus (Bulliard) Frics.
8171

Teliospore morphology of some smut fungi. II. Light microscopy.
8300

Biochemical studies on Bakanae fungus. Part 74. Synthesis of substances related to gibberellins. Part XVI An alternate synthetic route to a gibbane-10-carboxylic acid.
8586

Fungicidal compositions and methods using mesomeric phosphonium compounds. Patent 3,458,630.
8595

FUNGICIDES
Pesticide usage in relation to beekeeping.
8075

Influence of soil sterilization measures on the Mycorrhiza of forest plants. (I.).
8279

Piricularia oryzae, a problem common to rice growing countries.
8282

Save your potato crop from fungal and bacterial diseases.
8286

Control of bacterial spot of peach in New Jersey.
8288

Plant diseases and their chemical control.
8291

Neck rot in onions.
8296

Powdery mildew of hydrangeas.
8303

Contribution to the etiologic study and control of beet germ rotting.
8311

Phospho-acid esters as fungitoxic agents. Patent 3,459,857.
8313

Insecticidal-germicidal compositions of quaternary ammonium ortho phenyl phanate halide complexes. Patent 3,458,629.
8593

Fungicidal compositions and methods using mesomeric phosphonium compounds. Patent 3,458,630.
8595

Aryl alkoxythioureas. Patent 3,457,292.
8601

Modification of the carbon disulfide evolution method for dithiocarbamate residues.
8604

FUNGUS DISEASES (PLANTS)
Fungal-insect mutualism in trees and timber.
8125

Feeding and reproduction of the grain and the mushroom mite on wood-inhabiting hymenomycetes.
8192

Development of controlled conditions for the study of red stele disease on strawberries.
8216

A black mildew, of the genus Diporotheca, found on roots of Nicotiana tabacum in Connecticut.
8278

Influence of soil sterilization measures on the Mycorrhiza of forest plants. (I.).
8279

Diseases of tea, coffee and rubber discussed at the First International Congress of Plant Pathology.
8280

Piricularia oryzae, a problem common to rice growing countries.
8282

Alternaria seed infection of wheat.
8283

Notes on fungi responsible for the decay of hickory nuts.
8284

Save your potato crop from fungal and bacterial diseases.
8286

Use of cacao pod for recovering Phytophthora species pathogenic to Hevea brasiliensis.
8287

New species of Ceratocystis associated with bark injuries on deciduous fruit trees.
8289

Occurrence of Cryptostroma corticale in Northwestern United States.
8294

Neck rot in onions.
8296

The ineffectiveness of cycloheximide and phytoactin as chemical controls of the blister rust disease.
8301

Powdery mildew of hydrangeas.
8303

Pathological changes in the trunk of Prunus armeniaca L. and their relationship to the premature death of apricots. I. Investigations in the area of wood structure.
8308

An interesting mode of spore liberation by Georgefischeria riveae Thirum. and Naras.
8310

Contribution to the etiologic study and control of beet germ rotting.
8311

Resistance of strawberry varieties to leaf scorch disease.
8314

A new symptom of gummy stem blight (Mycosphaerella melonis) on cucumber fruit.
8315

GALLERIA MELLONELLA
Innervation and neural excitation of ventral muscle fibres of the larva of the waxmoth, Galleria mellonella.
8084

Immune responses of ligatured Galleria mellonella larvae.
8133

New ultracytological findings in insect nuclear polyhedroses.
8152

In vitro synthesis of injury protein and a companion protein in organs of prepupa of Galleria mellonella L..
8156

GAME BIRDS
Seed dressings and game birds.
8444

Kinetics of Cl-36 DDT in wild waterfowl.
8561

GAMMA RAYS
Effects of introduced irradiated male grain mites on population development.
8091

Effect of irradiation on mating preference and reproduction suppression of Drosophila melanogaster.
8157

Preliminary laboratory study of the effect of X rays on the fertility of Carpocapsa pomonella (Laspeyresia pomonella L.).
8229

Releases of unsexed gamma-irradiated codling moths for population suppression.
8378

Effect of gamma radiation on the insecticidal efficiency of malathion deposits on wheat and kraft paper.
8519

GASTROINTESTINAL SYSTEM
The fine-structure of the epimastigote forms of Trypanosoma lewisi in the rectum of the flea, Nosopsyllus fasciatus.
8161

Acid phosphatase activity in the digestive system of the desert locust Schistocerca gregaria (Forskal).
8166

Movement of calcium and magnesium across the midgut epithelium of the American cockroach.
8183

Gastrointestinal nematodes of Venezuelan carnivora.
8492

GELECHIIDAE
Sex pheromone specificity: Taxonomic and evolutionary aspects in Lepidoptera.
8178

Double your cotton yield by spraying.
8324

GELS
On the common protein determinants of Enterobacteriaceae.
8594

GENES
Sonless, a sex-ratio anomaly in Drosophila melanogaster caused by an interaction of cytoplasm and a sex-linked gene.
8224

Induction of duplications of genes which specify enzymes in Drosophila melanogaster.
8232

Evidence for a transposable element which causes reversible gene inactivation in Drosophila melanogaster.
8234

Multiple phene variegation of a pleiotropic gene of Drosophila melanogaster.
8246

On the arrangement of genes of 28s and 18s ribosomal RNA'S in Drosophila melanogaster.
8259

GENETICS
Parasites as biological models.
8507

On the mechanization of radiosensitization by 5-bromouracil. Studies on 60Co-gamma irradiated phage phi X-174 and its single-stranded infectious DNA.
8599

Isolation of the novel regulatory mutants of the tryptophan biosynthetic system in Eschericia coli.
8602

GENISTA TINCTORIA
Notes on dyer's greenweed (Genista tinctoria L., Leguminosae).
8420

GEORGEFISCHERIA RIVEAE
An interesting mode of spore liberation by Georgefischeria riveae Thirum. and Naras.
8310

GIBBERELLINS
Expression of sexual characteristics in annual mercurials.
8580

A study of the development of the giberellin content of embryos of Evonymus europaeus L., in the course of the stratification of seeds.
8584

Biochemical studies on Bakanae fungus. Part 74. Synthesis of substances related to gibberellins. Part XVI An alternate synthetic route to a gibbane-10-carboxylic acid.
8586

The elongation of stamen filaments in Graminaceae.
8589

GLANDS (INSECTS)
The structure of the female genital ducts and of the spermatheca in Gryllus campestris L.
8101

Neoplasms of insects.
8129

GLOMERULONEPHRITIS
Glomerular response in human and experimental rickettsial disease (Rocky Mountain spotted fever group). A light and electron microscopy study.
8450

GLOSSINA
Age structure of insect populations of medical importance.
8107

Recent fundamental work on tsetse flies.
8124

GLOSSINA PALPALIS
Chromosomes of the tsetse fly, Glossina palpalis R.-D..
8262

GLUCOSE COMPOUNDS
The demonstration of a single species of an unclassified bacterium in five cases of bovine lymphosarcoma.
8469

GLYCIDOL
The structure of the female genital ducts and of the spermatheca in Gryllus campestris L.
8101

GLYCYPHAGUS DOMESTICUS
The response of a predator, Hypoaspis aculeifer (Canestrini) (Acarina:Laelapidae), to two species of prey.
8081

GOLDEN FLAVESCENCE
The presence in the vineyards of the Tessin of a nearctic cicadella, new for Switzerland, Scaphoideus littoralis Ball (Hom.Jassidae) a possible carrier of yellow flavescence.
8325

GRAIN
Biological and ecological study of the hymenopterous parasites of the eggs of cereal bugs.
8182

Greenbug control in grain sorghum.
8337

Chemical weed control in crops.
8427

GRANULOSES
Ineffectiveness of a microsporidian and a granulosis virus in activating a cytoplasmic polyhedrosis virus in the alfalfa caterpillar, Colias eurytheme.
8198

GRAPE VINEYARDS
The presence in the vineyards of the Tessin of a nearctic cicadella, new for Switzerland, Scaphoideus littoralis Ball (Hom.Jassidae) a possible carrier of yellow flavescence.
8325

GRAPES
The presence in the vineyards of the Tessin of a nearctic cicadella, new for Switzerland, Scaphoideus littoralis Ball (Hom.Jassidae) a possible carrier of yellow flavescence.
8325

GRAPHOLITHA MOLESTA
Artificial diets for larvae of the oriental fruit moth.
8209

GRASSES
Recognition of a greenbug biotype injurious to sorghum.
8349

Effect of organic and inorganic nitrogen on nematode populations on turf.
8383

Use of charcoal to deactivate herbicide residues in turfgrass seedbeds.
8416

Chemical weed control in crops.
8427

The elongation of stamen filaments in Graminaceae.
8589

GREENHOUSE CULTURE
Effect of organic and inorganic nitrogen on nematode populations on turf.
8383

Multiple applications of 1,2-dibromo-3-chloropropane for control of nematodes in established rose plantings.
8384

GROUNDWATER
Persistence of pesticides in orchards and orchard soils. in; Organic pesticides in the environment; symposium...American Chemical Society, Atlantic City, N.J., Sept. 13-is, 1965. robert J. gould, ed.
8532

GROWTH
Development of controlled conditions for the study of red stele disease on strawberries.
8216

GRYLLIDAE
Alkyl 2-methylpropenyl ketoxime carbamates. Patent 3,454,642.
8117

The evolution and genetics of insect behaviour.
8228

GRYLLUS CAMPESTRIS
The structure of the female genital duets and of the spermatheca in Gryllus campestris L.
8101

GUINEA PIGS
Study of the plasmocytic reaction in experimental brueellosis infection.
8451

GUMMY STEM BLIGHT
A new symptom of gummy stem blight (Myeosphacrella melonis) on cucumber fruit.
8315

HABROBRACON
Genetic and physiological effects of ethylenimine in Habrohracon females.
8270

HAEMONCHUS CONTORTUS
The vulvar region of Haemonehus contortus (Nematoda Trichostrongylidae) in Spanish sheep, with the description supporting possible subspeeies, H. eontortus hispanicus.
8496

Effect of heterologous antibody on Haenonchus contortus development in vitro.
8500

The development of Haemonchus contortus in vitro. I. The effeet of pH and pCO2 on the rate of development to the fourth-stage larva.
8505

HAIR
Variation-statistical research on the female of Formica lugubris Zett.
8153

HALOGEN COMPOUNDS
Adult housefly control agents. Patent 3,454,638.
8111

Dihalophenyl-p-nitrophenyl ethers as herbieides. Patent 3,454,392.
8419

N-(hydrocarbylthioalkyl)halophenoxyacylamides as herbieides. Patent 3,459,533.
8439

HALOGENATED INSECTICIDES
Persistence of pestieides in orchards and orchard soils.
8531

HATCHING
Dieldrin effects in two generations of penned hen phcasants.
8537

HELICOTYLENCHUS
Pathogenicity of Hemicrieonemoides species to coffee.
8386

Plant-parasitic neinatodes in marginal Pinus ponderosa stands in eentral New Mexico.
8390

HELIOTHIS ZEA
Azodrin for eorn earworm and fall armyworm control and its persistance in sweet corn.
8069

HELMINTHIASIS
Control of helminthiasis with a series of 2-(omega-(2-thienyl)alkyl)-, 2-(2-(2-thienyl)vinyl) and the corresponding isomeric 3-thienyl derivatives of thiazoline and 5,6-dihydro-4H-1,3-thiazine. Patent 3,458,633.
8447

HELMINTHOSPORIUM
Alternaria seed infection of wheat.
8283

HELMINTHOSPORIUM SOROKINIANUM
Alternaria seed infection of wheat.
8283

HELOTIALES
Resistance of strawberry varieties to leaf scorch disease.
8314

HEMAGGLUTINATION
Examination of antihodies and of hemagglutines, complete and incomplete for the diagnosis of Salmonella typhimurium infections.
8563

HEMEROCAMPA PSEUDOTSUGATA
A nucleopolyhedrosis virus in populations of the Douglas-fir tussoek moth, Hemerocampa pseudotsugata, in California.
8335

HEMICRICONEMOIDES
Pathogenicity of Hemicriconemoides speeies to coffee.
8386

HEMOGLOBIN
Hemoglobins of parasitic nematodes. II. Electrophoretic analysis of the multiple hemoglobins of adults and developmental stages of the rabbit stomach worm, Obeliseoides cunieuli.
8495

HEMOLYMPH
Relationship between the proteins of the haemolymph and fat body during development of Pieris brassicae.
8097

DNase as a component of multi-enzyme complexes in the blood of saturniid moths.
8175

Carbohydrates in the haemolymph of the ericket, Aeheta domesticus.
8210

HEMOLYSINS
Leukocyte system of rabbits receiving repeated injeetions of staphyloeoccal leukoeidin.
8482

HEPTACHLOR
Comparison tests between various active ingredients employed during 1966 in the control of the flea beetle of the beet (Chaetoenema tibialis).
8208

Insecticide treatment of seed, as a eontrol method of the maize leaf weevil (Tanymeeus dilaticollis Gyll.).
8369

Investigations on the biology and control of Melolontha melolontha in hazelnut plantations.
8377

Identification and measurement of chlorinated organic pesticides in water by electron-capture gas ehromatography.
8527

Identification and measurement of chlorinated organic pesticides in water by electron-capture gas ehromatography.
8528

Note on improved extraction for chlorinated pesticide residues in oysters.
8551

HEPTACHLOR EPOXIDE
Identification and measurement of chlorinated organic pestieides in water by electron-capture gas chromatography.
8527

Identification and measurement of chlorinated organic pesticides in water by electron-capture gas chromatography.
8528

Note on improved extraction for chlorinated pesticide residues in oysters.
8551

HERBICIDE RESIDUES
Use of charcoal to deactivate herbicide residues in turfgrass seedbeds.
8416

Effects of oil and surfactant on residues of atrazine in field grown corn.
8540

The absorption and accumulation of atrazine in barnyardgrass at various stages of development.
8542

Analysis of potato for residue of C-3126 and of squash for residue of prometryne.
8544

Effeet of forage processing on dalapon residue.
8548

Note on the determination of some chlorophenoxy herbicides and their esters in water.
8598

HERBICIDES
Pesticide usage in relation to beekeeping.
8075

The effect of diphenamid on the uptake and distribution of macronutrient elements in cabbage.
8305

Grain aphids in New brunswick. IV. Effects of malathion and 2,4-D amine on aphid populations and on yields of oats and barley.
8320

Herbieidal composition and method employing thioalkylthiobenzothiazoles. Patent 3,455,676.
8393

Some ecological benefits of woody plant control with herbicides.
8395

Some ecological benefits of woody plant control with herbicides.
8396

Complexes of phosphorus pentafluoride oximes as herbicides. Patent 3,455,674.
8399

Chemical eontrol of vegetation under highway guardrails (1967).
8400

Herbicide evaluation in soybeans at Georgetown, Delaware, 1967.
8401

Control of yellow rocket (Barbarea vulgaris) and other broadleaf weeds associated with established alfalfa.
8402

Pre-harvest use of chemicals in potato produetion.
8403

Control and elimination of noxious weeds.
8404

Bispyridinium compounds as herbicides. Patent 3,458,305.
8405

A variation of plastic enelosure for field-testing aquatic herbicides.
8410

Chemical weed control in direct seeded marigolds.
8412

Report on the current and planned local noxious weed control programs in New Jersey.
8414

Aminophosphonate herbicides. Patent 3,455,675.
8415

Contribution to risk of damage in the practical use herbicides.
8418

Dihalophenyl-p-nitrophenyl ethers as herbicides. Patent 3,454,392.
8419

Potato vine killing in Maine - 1966.
8425

Chemieal weed control in crops.
8427

Herbicide trials for annual weeds in soybeans. (abstraet).
8428

From weeds to pasture in one year.
8431

Methods of weed control in sugar beets.
8432

Process for desiccating plants. Patent 3,454,390.
8434

Weed control in sugar beets with preemergence herbicides.
8436

HETERODERA

Weed control in white potatoes with preemergence herbicides.
8437

Preliminary studies of the effects of caeodylic acid on the activity of 2,4-D and pieloram in bean plants. (abstract).
8438

N-(hydrocarbylthioalkyl)halophenoxyacylamides as herbicides. Patent 3,459,533.
8439

Weed and crop responses to herbicides applied with various cultural practices and at different stages of potato growth.
8441

Effects of oil and surfactant on residues of atrazine in field grown corn.
8540

Effect of diehlobenil on anthocyanin development in Vaccinium macrocarpon (var. early black).
8578

A study of the activity of diphenamid and three analogs. (abstract).
8582

Influence of 2,4-D and streptomycin on the nitrogen metabolism of buckwheat seedlings and its relation to the anthocyanin biosynthesis.
8587

Aryl alkoxythioureas. Patent 3,457,292.
8601

Nortricyclic-3-ureas and their herbicidal compositions and methods of use. Patent 3,454,393.
8606

HETERODERA
Serological and morphological studies on the inter- and intraspecific differences of the plant-parasitic nematodes Heterodera and Ditylenchus.
8514

HETERODERA HUMULI
Host-parasite relationships of various plants and the hop cyst nematode, Heterodera humuli.
8391

HETERODERA ROSTOCHIENSIS
First observations on the resistance of a hybrid potato variety to some Italian populations of Heterodera rostochiensis Woll.
8381

HETERODERA TABACUM
A black mildew, of the genus Diporotheca, found on roots of Nicotiana tabacum in Connecticut.
8278

HEVEA BRASILIENSIS
Use of cacao pod for recovering Phytophthora species pathogenic to Hevea brasiliensis.
8287

HIBERNATION
Biology of Bracon mellitor, a parasite of the boll weevil.
8070

Physiology of rice stem borers, including hibernation and diapause.
8120

Estimating temperatures and heat flux in insect environments in stubbed cotton fields in the winter.
8121

HISTAMINE
The development of Haemonchus contortus in vitro. I. The effect of pH and pCO2 on the rate of development to the fourth-stage larva.
8505

HISTOCHEMISTRY
The connective tissues of insects.
8078

Morphological and histochemical studies on the larval stages of Metastrongylus spp. (lungworms of swine) in the earthworm intermediate host, Eisenia foetida, Savigny 1826.
8506

HISTOLOGY
Formation of tumorlike lesions in the cockroach Leucophaea maderae after nerve severance.
8199

HISTONES
Histone-mediated clumping of Newcastle disease virus (NDV).
8454

HISTORY
Notes on dyer's greenweed (Genista tinctoria L., Leguminosae).
8420

HOLOSTASPELLA
Contribution to the knowledge of the genus Holostaspella Berlese 1903 (Acari: Mesostigmata: Macrochelidae).
8032

HOMOEOSOMA ELECTELLUM
Photoperiod and temperature as factors controlling the diapause of the sunflower moth, Homoeosoma electellum.
8201

HORMONES
Neoplasms of insects.
8129

The role of the neurohormones in the sexual differentiation of Lampyris noctiluca.
8165

Chromosome interactions affecting mating speed in Drosophila robusta.
8258

Immunologic reactions in animals with tumors.
8446

HOST INDEXING (PLANTS)
Thaeniothrips vuilleti Bagnall 1933 and Thaeniothrips falsus Priesner 1936.
8061

HOST SPECIFICITY
Recent developments in and future prospects for the chemical control of the rice stem borer at IRRI.
8366

HOUSEHOLD PESTS
The significance of DDT in household and structural pest control - 1969.
8523

HUMAN DISEASES
Recent fundamental work on tsetse flies.
8124

Ticks in relation to human diseases caused by Rickettsia species.
8136

Anopheles moucheti in Cameroon.
8163

Practical importance of insecticide resistance for malaria eradication in tropical Africa.
8273

Technical problems of malaria eradication in Africa.
8275

Entomological factors in persisting transmission of malaria in eradication programs.
8276

Glomerular response in human and experimental rickettsial disease (Rocky Mountain spotted fever group). A light and electron microscopy study.
8450

The structure of the respiratory syncytial virus.
8461

Secondary effects of entomophagous fungi on humans and vertebrates: Actual cases.
8471

HUMANS
Chlorinated insecticides in the body fat of people in the United States.
8538

Distribution of pesticide residues in human body tissues from Montgomery County, Ohio. in: Organic pesticides in the environment; symposium...American Chemical Society Atlantic City, N.J., Sept. 13-15, 1965. robert J. Gould, ed.
8573

Hazards of insecticides and residue problems in rice cultivation.
8574

HUMIDITY
Biology of Bracon mellitor, a parasite of the boll weevil.
8070

Estimating temperatures and heat flux in insect environments in stubbed cotton fields in the winter.
8121

The comparative biologies of two hymenopterous parasites of the chaff scale, Parlatoria pergandii.
8123

The biology and life cycle of Chilo suppressalis (Walker) and Tryporyza (Schoenobius) incertulas (Walker) in temperature-climate areas.
8149

Some aspects of biological control of the San Jose scale (Quadraspidiotus perniciosus Comst.) with the help of the aphelinid Prospaltella perniciosi Tow.
8361

HUMUS
Contribution to the migratory behavior of Xiphinema diversicaudum (Mikoletzky) Thorne, X. coxi Tarjan and Longidorus maerosoma Hooper, as well as the diffusion of rhubarb mosaic virus in the field.
8382

HYALOMMA
Host-parasite interactions and the feeding of blood-sucking arthropods.
8490

HYALOPHORA CECROPIA
DNase as a component of multi-enzyme complexes in the blood of saturniid moths.
8175

HYALOPTERUS PRUNI
Air swallowing- an effective protection against drowning in larvae of Epistrophe balteata (Syrphidae Dipt.).
8185

HYBRIDS
Maternal influence of the OUHI structural gene of octanol dehydrogenase in intra-and interspecific hybrids of D. metzii, D. pellewae, and D. leticiae.
8257

First observations on the resistance of a hybrid potato variety to some Italian populations of Heterodera rostochiensis Woll.
8381

HYDRANGEA MACROPHYLLA
Powdery mildew of hydrangeas.
8303

HYDROCARBONS
Tolerances of three species of anuran amphibians to five chlorinated hydrocarbon insecticides.
8541

HYDROCYANIC ACID
Effect of carbon dioxide on toxicity of hydrocyanic acid and methyl bromide to adults of the confused flour beetle and granary weevil at two different temperatures.
8074

HYDROFLUORIC ACID
Cytogenetic effects of hydrogen fluoride on Drosophila melanogaster.
8251

HYDROGEN-ION CONCENTRATION
In situ breakage of turnip yellow mosaic virus RNA and in situ aggregation of the fragments. Analysis of successive stages.
8309

The development of Haemonchus contortus in vitro. I. The effect of pH and pCO2 on the rate of development to the fourth-stage larva.
8505

HYDROLYSIS
Studies on the 5'-terminus of turnip yellow mosaic virus RNA.
8316

The elongation of stamen filaments in Graminaceae.
8589

HYDROXY-N,N-DIMETHYL-CIS-CROTONAMIDE DIMETHYL PHOSPHATE, 3
Structure-activity and metaholism studies on organophosphate teratogens and their alleviating agents in developing hen eggs with special emphasis on Bidrin.
8572

HYDROXYL
Bi-modal effect of piperonyl butoxide on the o- and p-hydroxylations of biphenyl by mouse liver microsomes.
8566

HYLOTRUPES BAJULUS
The old house borer in Eastern States.
8076

HYMENENOPTERA
Impact of pathogens, parasites, and predators on aphids.
8126

HYMENOLEPIS DIMINUTA
The influence of dietary methionine on the amino acid pool of Hymenolepis diminuta in the rat's intestine.
8498

HYMENOPTERA
Ichneumonidae of Northwest Germany. (II. Part).
8043

The old house borer in Eastern States.
8076

A critical review of Bacillus thuringiensis var. Thuringiensis berliner and other crystalliferous bacteria.
8132

HYPERA POSTICA
Nosema sp. infecting a laboratory colony of the alfalfa weevil.
8109

HYPEROMYZUS LACTUCAE
Evidence of transovarial passage of the sowthistle yellow vein virus in the aphid Hyperomyzus lactucae.
8317

HYPERTROPHY
Relative hypertrophy of the mouse's right kidney.
8460

HYPHAE
Pathological changes in the trunk of Prunus armeniaca L. and their relationship to the premature death of apricots. I. Investigations in the area of wood structure.
8308

HYPOASPIS ACULEIFER
The response of a predator, Hypoaspis aculeifer (Canestrini) (Acarina:Laelapidae), to two species of prey.
8081

HYPSOPERINE GRAMINIS
Effect of organic and inorganic nitrogen on nematode populations on turf.
8383

ICHNEUMONIDAE
Observations on the type species of the four genera of Ichneumonidae (Hymenoptera).
8038

Revision of some species of the genera Mesostenus Gravenhorst, Agrothereutes Foerster, and Ischnus Gravenhorst (Hymenoptera, Ichneumonidae).
8039

Ichneumonidae of Northwest Germany. (II. Part).
8043

Mechanical and physiological defense reactions of an aphid species (Aphididae) against ichneumonid wasps (Hymenoptera).
8213

The possible control of rice stem borers by the use on natural enemies.
8379

IMAGOS
Effect of carbon dioxide on toxicity of hydrocyanic acid and methyl bromide to adults of the confused flour beetle and granary weevil at two different temperatures.
8074

A bloating disease of adults of the apple maggot.
8142

P32-labeling of common malaria mosquitoes: assimilation by larvae and retention and transfer during mating.
8193

IMMUNITY
Immune responses of ligatured Galleria mellonella larvae.
8133

Immunological responses of the mammalian host against tapeworm infections. VIII. Some evidence against cellular immunity induced in sheep by activated embryos of Taenia hydatigena and T. ovis.
8491

IMMUNIZATION
Development of controlled conditions for the study of red stele disease on strawberries.
8216

An electron microscopy study of the penetration of tobacco mosaic virus into leaves following experimental inoculation.
8292

Diseases of mink.
8466

IMMUNOCHEMISTRY
Biochemistry and taxonomy.
8060

Effect of heterologous antibody on Haemonchus contortus development in vitro.
8500

Purification and immunochemical analysis of a genus-specific cuticular antigen of Toxocara canis.
8502

IMMUNODIAGNOSIS
The antigenic composition of various preparations of fertile hydatic cysts analyzed by immunodiffusion and immunoelectrophoresis.
8509

IMMUNOFLUORESCENCE
Fluorescent antibody staining of four Babesia species.
8467

IMMUNOLOGY
Immunologic reactions in animals with tumors.
8446

Demonstration with indirect immunofluorescence of a cellular epsilon-antigen of the mouse.
8459

Parasites as biological models.
8507

The antigenic composition of various preparations of fertile hydatic cysts analyzed by immunodiffusion and immunoelectrophoresis.
8509

INCLUSION BODIES
A polyhedrosis in Culex salinarius of Louisiana.
8098

INDUSTRY
The Gold Crest Pest Control Program for the pest control industry.
8614

INFECTIOUS DISEASES
Diseases of mink.
8466

Examination of antibodies and of hemagglutines, complete and incomplete for the diagnosis of Salmonella typhimurium infections.
8563

INFLAMMATION
Formation of tumorlike lesions in the cockroach Leucophaea maderae after nerve severance.
8199

INFLUENZA VIRUSES
Method of treating influenza viral infection. patent 3,459,861.
8445

INFRARED RAYS
Influence of light on diapause in the boll weevil. Ii. Dependence of diapause response on narrow bands of visible radiation and a broad band of infrared radiation used to extend the photoperiod.
8128

The role of short infra-red rays, on the egg laying workers of the ant Dolichoderus quadripunctatus L..
8200

INJECTIONS
Leukocyte system of rabbits receiving repeated injections of staphylococcal leukocidin.
8482

Secretion of DDT by lactating cows fed thyroprotein.
8553

INSECT ADAPTATION
The evolution and past dispersal of the Trichoptera.
8181

INSECT ANATOMY
A new subfamily of blind beetle from Idaho ice caves with notes on its bionomics and evolution (Coleoptera: Leiodidae).
8065

Observations on the functional anatomy of the reproductive organs of Sitophilus (Coleoptera: Curculionidae).
8145

New and little known species of the family Trioza Forst. (Homoptera, Psyllidae) from Korea.
8150

INSECT BEHAVIOR
Biology of Bracon mellitor, a parasite of the boll weevil.
8070

Acoustical communication in arthropods.
8073

The old house borer in Eastern States.
8076

The response of a predator, Hypoaspis aculeifer (Canestrini) (Acarina:Laelapidae), to two species of prey.
8081

A continously recording flight mill for investigating the effect of volatile substances on the flight of teathered insects.
8087

Effects of increased pollinator levels on production of the highbush blueberry, Vaccinium corymbosum.
8089

Studies on the behaviour of Lucilia illustris Meigen as a parasite of vertebrates under experimental conditions.
8103

Studies on the mating behaviour of the predaceous mite Amblyseius gossipi (Acarina, Phytoseiidae).
8112

Endocrine control of reproduction in insects.
8113

The protein nature of the substance inducing female monogamy in Aedes aegypti. despommier, d d.
8118

Ecological research on arthropods of a sandy beach of the Mediterranean. II. The migrations of Talitrus saltator (Montagu) (Crustacea-Amphipoda).
8122

Behavioural aspects of the ecology of the sand martin flea Ceratophyllus styx jordani Smit (Siphonaptera).
8139

The biology and life cycle of Chilo suppressalis (Walker) and Tryporyza (Schoenobius) incertulas (Walker) in temperature-climate areas.
8149

Recent advances in bee communication and orientation.
8154

INSECT BIOCHEMISTRY

Effect of irradiation on mating preference and reproduction suppression of Drosophila melanogaster.
8157

Bionomics of Siricidae.
8162

Association among species of infrequent occurrenee: The inseet and spider fauna of Polyporus betulinus (Bulliard) Fries.
8171

The alarm-defence system of the ant Lasius alienus.
8174

Analysis of sequenees of matings in Drosophila mating chamher experiments.
8184

Air swallowing- an effeetive proteetior against drowning in larvae of Epistrophe halteata (Syrphidae Dipt.).
8185

Chemosensory bases of host plant selection.
8186

Pollen gathering of honey hees reduced by pesticide sprays.
8205

Sex attraetion and mating of lesser peaeh tree horer moths.
8214

Pit construction by myrmeleontid larvae.
8217

The evolution and genetics of insect behaviour.
8228

Genetic variahility and competitive performanee in species of Drosophila.
8244

Genetic mapping of behavioral mutants in Drosophila melanogaster by eountercurrent distrihution.
8249

Chromosome interactions affecting mating speed in Drosophila robusta.
8258

Non-random mating in Triholium eastaneum.
8265

On the rating of plants as sources of polyphagous species of plant liee (Homoptera: Aphididae).
8351

Varietal resistanee to rice stem borers in India.
8355

Dietary efficiency of natural foods for the growth and development of stored grain insect pests.
8521

INSECT BIOCHEMISTRY

Changes in nitrogenous compounds during the metamorphosis of the blowfly, Lucilia cuprina.
8086

The incorporation of amino-alcohols into the phospholipids of the adult housefly, Musca domestica.
8090

Relationship between the proteins of the haemolymph and fat body during development of Pieris hrassicae.
8097

Developmental changes in the protein constitution of a mosquito (Armigeres suhalbatus) as revealed by disc electrophoresis.
8106

On the phosphagen isolated from eggs of insects.
8108

Ecdysone titres in the last larva adult stages of the milkweed bug.
8115

The protein nature of the suhstance inducing female monogamy in Aedes aegypti. despommier, d d.
8118

Isolation and characterization of the rihosomal proteins of Drosophila melanogaster.
8147

Correlation of nucleolytic activities with the stage of growth of the silkworm.
8151

In vitro synthesis of injury protein and a companion protein in organs of prepupa of Galleria mellonella L..
8156

Phenoxazinone synthesis in Drosophila melanogaster.
8170

On the positional specificity of phospholipase A of certain species of mosquitoes.
8172

DNase as a component of multi-enzyme complexes in the blood of saturniid moths.
8175

Regulation of external respiration by the booklung spiracles of the spiders, Araneus diadematus Clerck and A. marmoreus Clerck.
8176

Phenylalanine induced enhancement of drosopterin formation in the eye eolor mutant or66k (orange) of Drosophila melanogaster.
8187

Aetivities in unfertilized and fertilized Drosophila eggs of enzymes in the nucleic acid hiosynthetic pathway.
8194

Carbohydrates in the haemolymph of the cricket, Acheta domesticus.
8210

Chromatographic comparison of pteridine levels in four white locus alleles of Drosophila melanogaster.
8218

Carnitine acetyltransferase in developing and mature sperm of wild-type and mutant Drosophila melanogaster.
8231

Association of somatic cell lesions with 3-bromodeoxyoridine incorporation in ONA of Drosophila.
8263

Genetic control of the iso-accepting forms of tyrosyl-tRna in a suppressor of Drosophila melanogaster.
8269

Mode of action of insecticide synergists.
8569

INSECT BIOLOGY

A new subfamily of blind beetle from Idaho ice caves with notes on its bionomics and evolution (Coleoptera: Leiodidae).
8065

Biology of Bracon mellitor, a parasite of the boll weevil.
8070

Influence of larval population density on the size of adults, duration of development, and diapause frequency in Pteromalus puparum L. (Hym., Chalcididae).
8088

Research with ionizing irradiation on the sterilization and radiosensitivity of Chrysomela decemlineata Say.
8096

Age structure of inseet populations of medical importance.
8107

Studies on the mating behaviour of the predaceous mite Amblyseius gossipi (Acarina, Phytoseiidae).
8112

The comparative biologies of two hymenopterous parasites of the ehaff scale, Parlatoria pergandii.
8123

Recent fundamental work on tsetse flies.
8124

Impact of pathogens, parasites, and predators on aphids.
8126

The biology of the European eorn borer, Ostrinia nuhilalis (Hubner), in Manitoba.
8127

Daily and seasonal density of four entomophagous predators on cotton in upper Egypt.
8130

Bionomies and ecology of predaeeous Coccinellidae.
8135

Behavioural aspects of the eeology of the sand martin flea Ceratophyllus styx jordani Smit (Siphonaptera).
8139

Research on .bio-ecology of Sitona crinitus (Herbst) and method for chemieal control.
8148

The biology and life eycle of Chilo suppressalis (Walker) and Tryporyza (Schoenobius) incertulas (Walker) in temperature-elimate areas.
8149

Biologieal investigations on Pandemis heparana (Den. and Schiff.) with special consideration given to the factors inducing diapause and influencing egg laying.
8155

Bionomics of Siricidae.
8162

Food selection by grasshoppers.
8164

Investigation into the morphology, taxonomy, and biology of the Podapolipidae (Acarina, Tarsonemini) (Under special consideration, the parallel evolution of the genera feutarsopolipus and Dorsipes with their hosts (Coleopt., Carahidae)).
8173

Biological and ecological study of the hymenopterous parasites of the eggs of ecreal bugs.
8182

Synecological studies on flies (Anthomyiini) in cultivated fields. (A contribution to agrarecology).
8190

Effeets of sub-lethal dosages of parathion and carharyl on the biology of Dysdercus koenigii Fabricius.
8191

Color and natural products attracting the adult sugarbeet root maggot in Southeentral Idaho.
8197

Predators and parasites of Aphytis (Hym., Aphelinidae).
8206

The presence in the vineyards of the Tessin of a nearctic cicadella, new for Switzerland, Scaphoideus littoralis Ball (Hom.Jassidae) a possible carrier of yellow flavescence.
8325

Biological studies on Amblyseius aleyrodis a predator of the cotton whitefly (Acarina, Phytoseiidae).
8338

Evaluation of forest insect infestations.
8357

Some aspects of biological control of the San Jose scale (Quadraspidiotus perniciosus Comst.) with the help of the aphelinid Prospaltella perniciosi Tow.
8361

Fifty years of research on the pink bollworm in the United States.
8365

Ecology of common insect pests of rice.
8368

Investigations on the biology and control of Melolontha melolontha in hazelnut plantations.
8377

Impact of parasites, predators, and diseases on rice pests.
8380

Biology and economic importance of the chigger Neoschongastia americana on turkeys.
8489

Host-parasite interactions and the feeding of blood-sucking arthropods.
8490

INSECT CONTROL
A summary of the forecasting program for rice stem borer control in Japan.
8068

Recent fundamental work on tsetse flies.
8124

Experiences in mass rearing of Prospaltella perniciosi Tow. in the transformed Stuttgart insectarium.
8167

Forest entomology.
8328

Bibliography on biological control. XI.
8341

Some aspects of biological control of the San Jose scale (Quadraspidiotus perniciosus Comst.) with the help of the aphelinid Prospaltella perniciosi Tow.
8361

Varietal resistance to rice stem borers at IRRI.
8367

Some recommendations for the control of perforators of seeds of Anonaceae (Bephrata sp. order Hymenoptera).
8372

Can the developmental trends of biological pest control be demonstrated with a bibliography.
8375

INSECT DISEASES
Motion and flagellation of Clostridium brevifaciens.
8094

A polyhedrosis in Culex salinarius of Louisiana.
8098

A noninclusion virus of blow-fly larvae.
8105

Nosema sp. infecting a laboratory colony of the alfalfa weevil.
8109

Lahoratory study of the ecological conditions favoring the development of the fungus Beauveria tenella on cockchafer larvae.
8116

A bloating disease of adults of the apple maggot.
8142

Research on the pathogenesis of Nosema melolonthae Krieg..
8146

New ultracytological findings in insect nuclear polyhedroses.
8152

Purification of a cytoplasmic-polyhedrosis virus of the silkworm, Bombyx mori.
8159

The fine-structurc of the epimastigote forms of Trypanosoma lewisi in the rectum of the flea, Nosopsyllus fasciatus.
8161

Control of European foulbrood disease of the honey hee.
8189

Ineffectiveness of a microsporidian and a granulosis virus in activating a cytoplasmic polyhedrosis virus in the alfalfa caterpillar, Colias eurytheme.
8198

Formation of tumorlike lesions in the cockroach Leucophaea maderae after nerve severance.
8199

An epizootie disease of Tarichium (Entomophthoraceae) on the larvae of Ocnogyna parasita Hbn. (Lepidoptera, Arctiidae).
8215

INSECT ECOLOGY
A new subfamily of blind beetle from Idaho ice caves with notes on its bionomics and evolution (Coleoptera: Leiodidae).
8065

Intrafloral ecology.
8080

Experiments on the description of the environments of an insect form (model and field experiments with Drosophila).
8085

Ecological research on arthropods of a sandy beach of the Mediterranean. II. The migrations of Talitrus saltator (Montagu) (Crustacea-Amphipoda).
8122

Fungal-insect mutualism in trees and timber.
8125

Behavioural aspects of the ecology of the sand martin flea Ceratophyllus styx jordani Smit (Siphonaptera).
8139

Research on bio-ecology of Sitona crinitus (Herbst) and method for chemical control.
8148

Association among species of infrequent occurrence: The insect and spider fauna of Polyporus betulinus (Bulliard) Fries.
8171

Biological and ecological study of the hymenopterous parasites of the eggs of cereal bugs.
8182

Air swallowing- an effective protection against drowning in larvae of Epistrophe balteata (Syrphidae Dipt.).
8185

Synecological studies on flies (Anthomyiini) in cultivated fields. (A contribution to agrarecology).
8190

Color and natural products attracting the adult sugarbeet root maggot in Southcentral Idaho.
8197

Genetic and environmental influences upon the viability of Drosophila melanogaster metafemales.
8255

Some aspects of biological control of the San Jose scale (Quadraspidiotus perniciosus Comst.) with the help of the aphelinid Prospaltella perniciosi Tow.
8361

Ecology of common insect pests of rice.
8368

The rice gall midge Pachydiplosis oryzae (Wood-Mason).
8371

INSECT EGGS
On the phosphagen isolated from eggs of insects.
8108

Endocrine control of reproduction in insects.
8113

Mass rearing of the rice stem borer.
8119

Physiology of rice stem borers, including hibernation and diapause.
8120

Influence of light on diapause in the boll weevil. Ii. Dependence of diapause response on narrow bands of visible radiation and a broad band of infrared radiation used to extend the photoperiod.
8128

Nutritional studies of the rice stem borer Chilo suppressalis Walker.
8140

Biological investigations on Pandemis heparana (Den. and Schiff.) with special consideration given to the factors inducing diapause and influencing egg laying.
8155

Biological and ecological study of the hymenopterous parasites of the eggs of cereal bugs.
8182

The role of short infra-red rays, on the egg laying workers of the ant Dolichoderus quadripunctatus L..
8200

The embryogenesis of the larval head of Simulium venustum Say (Diptera: Nematocera).
8225

Recent developments in and future prospects for the chemical control of the rice stem borer at IRRI.
8366

Apple chalcid, Torymus varians (Wlk.), (Hymenoptera: Torymidae), in Quebec.
8373

Ovicidal efficiency of parathion and diazion for quarantine treatment of the Western tent caterpillar.
8376

INSECT EVOLUTION
A new subfamily of blind beetle from Idaho ice caves with notes on its bionomics and evolution (Coleoptera: Leiodidae).
8065

Intrafloral ecology.
8080

Insects and the problem of austral disjunctive distribution.
8092

Investigation into the morphology, taxonomy, and biology of the Podapolipidae (Acarina, Tarsonemini) (Under special consideration, the parallel evolution of the genera feutarsopolipus and Dorsipes with their hosts (Coleopt., Carabidae)).
8173

Sex pheromone specificity: Taxonomic and evolutionary aspects in Lepidoptera.
8178

The evolution and past dispersal of the Trichoptera.
8181

The population genetics of insect introduction.
8260

Host-parasite interactions and the feeding of blood-sucking arthropods.
8490

INSECT FLIGHT
A continously recording flight mill for investigating the effect of volatile substances on the flight of teathered insects.
8087

INSECT GENETICS
Cytotaxonomy of Aphididae.
8051

Practical importance of resistance to insecticides in Anopheles.
8099

Cuticular pigments of tobacco hornworm (Manduca sexta) larvae: Effects of diet and genetic differences.
8100

Terminal respiration in minute mutations of Drosophila.
8114

Neoplasms of insects.
8129

Chromatographic comparison of pteridine levels in four white locus alleles of Drosophila melanogaster.
8218

Radiation induced increase in fitness in Drosophila simulans.
8219

The productivity of four inbred strains of Drosophila melanogaster.
8221

Allelic complementation and genetic fine structure at the rudimentary locus of Drosophila melanogaster.
8222

Triploidy in natural populations of black flies Prosimulium macropyga Lundstr (Simuliidae, Diptera).
8223

Sonless, a sex-ratio anomaly in Drosophila melanogaster caused by an interaction of cytoplasm and a sex-linked gene.
8224

The embryogenesis of the larval head of Simulium venustum Say (Diptera: Nematocera).
8225

The influence of linkage phase on recombination rates in Tribolium.
8226

Genetic and environmental variability for bristles in Drosophila.
8227

The evolution and genetics of insect behaviour.
8228

Preliminary laboratory study of the effect of X rays on the fertility of Carpocapsa pomonella (Laspeyresia pomonella L.).
8229

Heterozygosity in inbred lines of Tribolium castaneum.
8230

Induction of duplications of genes which specify enzymes in Drosophila melanogaster.
8232

Sterility, lethality and segregation ratios in XYY males of Drosophila melanogaster.
8233

Evidence for a transposable element which causes reversible gene inactivation in Drosophila melanogaster.
8234

The complementation map of mutations in a small region of the X-chromosome of Drosophila melanogaster.
8235

Reciprocal fertility among five populations of Anopheles albimanus.
8236

Ultrastructural study of hybrid sterility in Drosophila paulistrom.
8237

The synaptomere-zygosome-recombinase hypothesis of meiotic crossing over in Drosophila.
8238

Lampbrush chromosomes and multiple nucleoli of Orthoptera.
8239

Genetic control of a sex influenced quantitative trait in Tribolium castaneum.
8240

Inheritance of semi-sterility and transmission of chromosome rearrangements and fragments for 3 generations in the large milkweed bug.
8241

The semispecies and the transitional populations of Drosophila paulistorum.
8242

In vitro growth of the infective agent responsible for the Sex Ratio condition in Drosophila hifasciata.
8243

Genetic variability and competitive performance in species of Drosophila.
8244

Multiple phene variegation of a pleiotropic gene of Drosophila melanogaster.
8246

Phenotypic polymorphism in Aphidius smithi Sharma Subba Rao (Hymenoptera, Aphidiidae).
8247

Detection and partial characterization of a crossover suppressor on chromosome V of the house fly.
8248

Genetic mapping of behavioral mutants in Drosophila melanogaster by countercurrent distribution.
8249

Caffeine and radiation induced mutations in Drosophila melanogaster.
8250

Effects of controlled heterozygosis on viability in Drosophila melanogaster.
8252

Relation between homozygous viability and average dominance in Drosophila melanogaster.
8253

Natural selection on the degree of dominance of viability polygenes in Drosophila melanogaster.
8254

Genetic and environmental influences upon the viability of Drosophila melanogaster metafemales.
8255

Maternal influence of the OUHI structural gene of octanol dehydrogenase in intra-and interspecific hybrids of D. metzii, D. pellewae, and D. leticiae.
8257

Chromosome interactions affecting mating speed in Drosophila robusta.
8258

On the arrangement of genes of 28s and 18s ribosomal RNA'S in Drosophila melanogaster.
8259

The population genetics of insect introduction.
8260

The embryology of Lytta viridana Le Conte (Coleoptera: Meloidae). IV. Chromatin elimination.
8261

Chromosomes of the tsetse fly, Glossina palpalis R.-D..
8262

Association of somatic cell lesions with 3-bromodeoxyoridine incorporation in ONA of Drosophila.
8263

Quantitative determination of DNA content during formation of one of the puffs and one of the Balhiani rings in Chironomus dorsalis.
8264

Non-random mating in Tribolium castaneum.
8265

The sS RNA genes of Drosophila melanogaster.
8267

New data on nondisjunction of the X chromosomes in females of Drosophila melanogaster.
8268

Genetic control of the iso-accepting forms of tyrosyl-tRna in a suppressor of Drosophila melanogaster.
8269

Genetic and physiological effects of ethylenimine in Habrobracon females.
8270

Male determining factors found on 3 autosomes in the house fly, Musca domestica L..
8271

INSECT HISTOLOGY
The connective tissues of insects.
8078

INSECT IDENTIFICATION
Notes on some new or little known Chaleididae (Hym.).
8031

Contribution to the knowledge of the genus Holostaspella Berlese 1903 (Acari: Mesostigmata: Macrochelidae).
8032

Additions to the Cyrtosiinae (Bombyliidae) of South Africa.
8037

New species of the Laspeyresia succedana Schiff. group (Lep. Tortricidae).
8052

New Pterostichinae (Coleopt. Carabid.). VIII.
8058

Thaeniothrips vuilleti Bagnall 1933 and Thaeniothrips falsus Priesner 1936.
8061

Investigations concerning the taxonomy of German Thysanoptera. 5. Thaeniotrips linariae Pr. 1928 and Thaeniotrips hildae Tek. 1956.
8062

The old house borer in Eastern States.
8076

New and little known species of the family Trioza Forst. (Homoptera, Psyllidae) from Korea.
8150

How to distinguish attacks by the black turpentine beetle and Dioryctria amatella on southern pines.
8339

How to control insects on field tobacco.
8347

INSECT METABOLISM
Toxicology and physiology of DDT resistance in the German cockroach.
8138

Use of the multiple regression equation in the prediction of the insecticidal activity of antiholinesterase inseeticides.
8143

Absorption of DDT and metabolism of DDT and related compounds by DDT-RESISTANT codling moths.
8180

P32-labeling of common malaria mosquitoes: assimilation by larvae and retention and transfer during mating.
8193

The residual of N,N,N',N'-tetramethylppiperidinophosphonic diamide after injection, tarsal contact, and topical application to the boll weevil.
8202

INSECT MIGRATION
Ecological research on arthropods of a sandy beach of the Mediterranean. II. The migrations of Talitrus saltator (Montagu) (Crustacea-Amphipoda).
8122

INSECT MORPHOLOGY
Contribution to the knowledge of the genus Holostaspella Berlese 1903 (Acari: Mesostigmata: Macrochelidae).
8032

Taxonomy of the rice stem borers.
8041

The systematic position of Brahmaea europaea Hartig (Lepidoptera Brahmaeidae).
8053

Physiology of rice stem borers, including hibernation and diapause.
8120

Investigations of the morphology and development of the scolopidia in the stick insect Carausius morosus Br.
8141

The biology and life cycle of Chilo suppressalis (Walker) and Tryporyza (Schoenobius) incertulas (Walker) in temperature-climate areas.
8149

The role of the neurohormones in the sexual differentiation of Lampyris noctiluca.
8165

The labium of Aphelocheirus aestivalis F. as compared with that of typical Naucoridae (Heteroptera).
8169

Investigation into the morphology, taxonomy, and biology of the Podapolipidae (Acarina, Tarsonemini) (Under special consideration, the parallel evolution of the genera feutarsopolipus and Dorsipes with their hosts (Coleopt., Carabidae)).
8173

The embryogenesis of the larval head of Simulium venustum Say (Diptera: Nematocera).
8225

The presence in the vineyards of the Tessin of a nearctic cicadella, new for Switzerland, Scaphoideus littoralis Ball (Hom.Jassidae) a possible carrier of yellow flavescence.
8325

Rice leafhoppers.
8363

INSECT MUTATION
Terminal respiration in minute mutations of Drosophila.
8114

The productivity of four inbred strains of Drosophila melanogaster.
8221

Carnitine acetyltransferase in developing and mature sperm of wild-type and mutant Drosophila melanogaster.
8231

The complementation map of mutations in a small region of the X-chromosome of Drosophila melanogaster.
8235

INSECT NAMES
Ichneumonidae of Northwest Germany. (II. Part).
8043

Epichnopteryx pusilella Rbl. belongs to the genus Reisseronia Sied. (Lepidoptera, Psychidae).
8054

Thaeniothrips vuilleti Bagnall 1933 and Thaeniothrips falsus Priesner 1936.
8061

INSECT NUTRITION
Effects of introduced irradiated male grain mites on population development.
8091

Cuticular pigments of tobacco hornworm (Manduca sexta) larvae: Effects of diet and genetic differences.
8100

Endocrine control of reproduction in insects.
8113

Mass rearing of the rice stem horer.
8119

Ecological research on arthropods of a sandy beach of the Mediterranean. II. The migrations of Talitrus saltator (Montagu) (Crustacea-Amphipoda).
8122

The comparative biologies of two hymenopterous parasites of the chaff scale, Parlatoria pergandii.
8123

Recent fundamental work on tsetse flies.
8124

Bionomics and ecology of predaceous Coccinellidae.
8135

Nutritional studies of the rice stem borer Chilo suppressalis Walker.
8140

Biological investigations on Pandemis heparana (Den. and Schiff.) with special consideration given to the factors inducing diapause and influencing egg laying.
8155

Food selection by grasshoppers.
8164

Chemosensory bases of host plant selection.
8186

Feeding and reproduction of the grain and the mushroom mite on wood-inhabiting hymenomycetes.
8192

P32-labeling of common malaria mosquitoes: assimilation hy larvae and retention and transfer during mating.
8193

Influence of food on the fecundity of Chrysopa carnea Stephens (Neuroptera, Chrysopidae).
8196

Biological studies on Amhlyseius aleyrodis a predator of the cotton whitefly (Acarina, Phytoseiidae).
8338

On the rating of plants as sources of polyphagous species of plant lice (Homoptera: Aphididae).
8351

Investigations on the biology and control of Melolontha melolontha in hazelnut plantations.
8377

INSECT OUTBREAK FORECASTING
The rice stem borer forecasting system in Taiwan.
8045

A summary of the forecasting program for rice stem horer control in Japan.
8068

Recent developments in and future prospects for the chemical control of the rice stem borer in India.
8370

INSECT OUTBREAKS
Evaluation of forest insect infestations.
8357

INSECT PESTS
The old house borer in Eastern States.
8076

Research with ionizing irradiation on the sterilization and radiosensitivity of Chrysomela decemlineata Say.
8096

Research on hio-ecology of Sitona crinitus (Herbst) and method for chemical control.
8148

Preliminary lahoratory study of the effect of X rays on the fertility of Carpocapsa pomonella (Laspeyresia pomonella L.).
8229

Mosquito control in and around homes and farmsteads.
8274

Grain aphids in New hrunswick. IV. Effects of malathion and 2,4-D amine on aphid populations and on yields of oats and harley.
8320

Corn horer outlook.
8321

Fire on fire ants.
8322

Double your cotton yield by spraying.
8324

Observations on Strophosomus melanogrammus (Forst.), Polydrosus marginatus Steph. and Otiorrhynchus armadillo (Rossi) (Coleoptera Curculionidae), pests of Pseudotsuga douglasii Carr in Tuscany.
8333

Neodiprion taedae linearis: A sawfly pest of loblolly and shortleaf pines.
8334

Chemical control of a species of the false chinchbug group on wheat and sugar beets.
8336

Greenhug control in grain sorghum.
8337

How to distinguish attacks by the black turpentine heetle and Dioryctria amatella on southern pines.
8339

How to control insects on field tobacco.
8347

Recognition of a greenbug biotype injurious to sorghum.
8349

The major insect pests of the rice plant - proceedings of a Symposium of International Rice Research Institute, September, 1964.
8352

Fifty years of research on the pink bollworm in the United States.
8365

Apple chalcid, Torymus varians (Wlk.), (Hymenoptera: Torymidae), in Quebec.
8373

Investigations on the biology and control of Melolontha melolontha in hazelnut plantations.
8377

Dietary efficiency of natural foods for the growth and development of stored grain insect pests.
8521

INSECT PHYSIOLOGY
Thaeniothrips vuilleti Bagnall 1933 and Thaeniothrips falsus Priesner 1936.
8061

Controlling wasps.
8071

The old house borer in Eastern States.
8076

Aggregation of Drosophila embryonic cells and effects of proteolytic enzymes.
8077

The connective tissues of insects.
8078

The response of a predator, Hypoaspis aculeifer (Canestrini) (Acarina:Laelapidae), to two species of prey.
8081

Effects of ecdysones on diapause in the European corn borer, Ostrinia nubilalis.
8083

Innervation and neural excitation of ventral muscle fihres of the larva of the waxmoth, Galleria mellonella.
8084

Changes in nitrogenous compounds during the metamorphosis of the blowfly, Lucilia cuprina.
8086

Influence of larval population density on the size of adults, duration of development, and diapause frequency in Pteromalus puparum L. (Hym., Chalcididae).
8088

Relationship between the proteins of the haemolymph and fat body during development of Picris brassicae.
8097

The structure of the female genital ducts and of the spermatheca in Gryllus campestris L.
8101

Microtubules in the spermatids of the silkworm (Bombyx mori L.).
8102

The influence of Bacillus thuringiensis toxins on various physiological characters of Drosophila adults.
8104

Developmental changes in the protein constitution of a mosquito (Armigeres subalbatus) as revealed by disc electrophoresis.
8106

Endocrine control of reproduction in insects.
8113

Terminal respiration in minute mutations of Drosophila.
8114

Ecdysone titres in the last larva adult stages of the milkweed bug.
8115

The protein nature of the substance inducing female monogamy in Aedes aegypti. despommier, d d.
8118

Physiology of rice stem borers, including hibernation and diapause.
8120

Recent fundamental work on tsetse flies.
8124

Influence of light on diapause in the boll weevil. Ii. Dependence of diapause response on narrow bands of visible radiation and a broad band of infrared radiation used to extend the photoperiod.
8128

Neoplasms of insects.
8129

The length of larval stage in Pyrethroid-resistant and susceptible strains of the house fly, Musca domestica L.
8131

Immune responses of ligatured Galleria mellonella larvae.
8133

Bionomics and ecology of predaceous Coccinellidae.
8135

Toxicology and physiology of DDT resistance in the German cockroach.
8138

Investigations of the morphology and development of the scolopidia in the stick insect Carausius morosus Br.
8141

Observations on the functional anatomy of the reproductive organs of Sitophilus (Coleoptera: Curculionidae).
8145

Correlation of nucleolytic activities with the stage of growth of the silkworm.
8151

Variation-statistical research on the female of Formica lugubris Zett.
8153

Biological investigations on Pandemis heparana (Den. and Schiff.) with special consideration given to the factors inducing diapause and influencing egg laying.
8155

The role of the neurohormones in the sexual differentiation of Lampyris noctiluca.
8165

Acid phosphatase activity in the digestive system of the desert locust Schistocerca gregaria (Forskal).
8166

The role of the nervous system in insect morphogenesis and regeneration.
8168

The labium of Aphelocheirus aestivalis F. as compared with that of typical Naucoridae (Heteroptera).
8169

The alarm-defence system of the ant Lasius alienus.
8174

Regulation of external respiration by the booklung spiracles of the spiders, Araneus diadematus Clerck and A. marmoreus Clerck.
8176

Acoustic interneurons in the brain of noctuid moths.
8177

Sex pheromone specificity: Taxonomic and evolutionary aspects in Lepidoptera.
8178

Movement of calcium and magnesium across the midgut epithelium of the American cockroach.
8183

Chemosensory bases of host plant selection.
8186

Activities in unfertilized and fertilized Drosophila eggs of enzymes in the nucleic acid biosynthetic pathway.
8194

Spectrum analysis of the light emitted by Luciola lusitanica (Charp.).
8195

Formation of tumorlike lesions in the cockroach Leucophaea maderae after nerve severance.
8199

The role of short infra-red rays, on the egg laying workers of the ant Dolichoderus quadripunctatus L..
8200

Photoperiod and temperature as factors controlling the diapause of the sunflower moth, Homoeosoma electellum.
8201

Gut absorption.
8207

Contrast perception in eye colour mutants of Drosophila melanogaster and Drosophila subobscura.
8211

Haemocyte activity in relation to epidermal cell growth, cuticle secretion, and cell death in a metamorphosing cyclorrhaphan pupa.
8212

Mechanical and physiological defense reactions of an aphid species (Aphididae) against ichneumonid wasps (Hymenoptera).
8213

The embryogenesis of the larval head of Simulium venustum Say (Diptera: Nematocera).
8225

Carnitine acetyltransferase in developing and mature sperm of wild-type and mutant Drosophila melanogaster.
8231

Ultrastructural study of hybrid sterility in Drosophila paulistrom.
8237

Developmental time of geographical populations of Tribolium castaneum.
8266

Genetic and physiological effects of ethylenimine in Habrobracon females.
8270

Mosquito control in and around homes and farmsteads.
8274

Corn borer outlook.
8321

The rice gall midge Pachydiplosis oryzae (Wood-Mason).
8371

Dietary efficiency of natural foods for the growth and development of stored grain insect pests.
8521

INSECT PROTECTIVE DEVICES
The alarm-defence system of the ant Lasius alienus.
8174

Air swallowing- an effective protection against drowning in larvae of Epistrophe balteata (Syrphidae Dipt.).
8185

Mechanical and physiological defense reactions of an aphid species (Aphididae) against ichneumonid wasps (Hymenoptera).
8213

INSECT REARING
The rice stem borer forecasting system in Taiwan.
8045

Biology of Bracon mellitor, a parasite of the boll weevil.
8070

Experiments on the description of the environments of an insect form (model and field experiments with Drosophila).
8085

Studies on the behaviour of Lucilia illustris Meigen as a parasite of vertebrates under experimental conditions.
8103

A noninclusion virus of blow-fly larvae.
8105

Studies on the mating behaviour of the predaceous mite Amblyseius gossipi (Acarina, Phytoseiidae).
8112

Mass rearing of the rice stem borer.
8119

Selection for American foulbrood resistance in larval honey bees.
8134

Nutritional studies of the rice stem borer Chilo suppressalis Walker.
8140

Experiences in mass rearing of Prospaltella perniciosi Tow. in the transformed Stuttgart insectarium.
8167

Artificial diets for larvae of the oriental fruit moth.
8209

The productivity of four inbred strains of Drosophila melanogaster.
8221

New data on nondisjunction of the X chromosomes in females of Drosophila melanogaster.
8268

New perspectives in the control of Aonidiella aurantii of Morocco (Hom., Diaspididae).
8327

Fifty years of research on the pink bollworm in the United States.
8365

The possible control of rice stem borers by the use on natural enemies.
8379

INSECT REPELLENTS
Pesticide usage in relation to beekeeping.
8075

Activity of repellents employed in aerosol form.
8110

Mosquito control in and around homes and farmsteads.
8274

INSECT RESPIRATION
Regulation of external respiration by the booklung spiracles of the spiders, Araneus diadematus Clerck and A. marmoreus Clerck.
8176

INSECT TAXONOMY
Observations on brachypterism in Encyrtus rufulus Mercet (Hym. Chalcidoidea, Encyrtidae).
8021

A new Mythimna O. from East Turkey (Contribution to the knowledge of Noctuidae Trifinae 152).
8022

The type material of Pieris napi pseudorapae Verity.
8023

Three new species of subgenus Parasecia Loomis (genus Fonsecia) from northeastern Brazil and a key to the included species (Acarina: Trombiculidae).
8024

New lamiids from the stock of the state zoological collection in Munich (Coleoptera, Cerambycidae).
8025

A new species of Tetrastichus Haliday, 1844 (Hymenoptera: Eulophidae) parasitic nymphs of Payrocephala calodendri Moran (Homoptera: Psyllidae).
8026

Ixodes himalayensis sp. n. (Acarina: Ixodidae) parasitizing small mammals in Himachal Pradesh, India.
8027

A new genus and species of the family Lentulidae (Orthoptera: Acridoidea).
8028

Notes about Anobiidae. XXXI. Genera of the Dorcatominae of the Ethiopian fauna.
8029

A revision of Idiosystatus Berg (Homoptera: Fulgoroidea, Delphacidae).
8030

Notes on some new or little known Chalcididae (Hym.).
8031

Genus Opius Wesmael: New revision of the Neotropical species of the crassiceps group.
8033

A new Phanerotoma species from Syria (Hymenoptera, Braconidae).
8034

Three new species of Aleyrodidae from the Sudan (Hemiptera-Homoptera).
8035

Contribution to the knowledge of the Curculionidae from the western Mediterranean. VI. The genus Seidlitzia.
8036

Additions to the Cyrtosiinae (Bombyliidae) of South Africa.
8037

Observations on the type species of the four genera of Ichneumonidae (Hymenoptera).
8038

Revision of some species of the genera Mesostenus Gravenhorst, Agrothereutes Foerster, and Ischnus Gravenhorst (Hymenoptera, Ichneumonidae).
8039

Taxonomy of the rice stem borers.
8041

Ichneumonidae of Northwest Germany. (II. Part).
8043

Some new and little-known species of Pyrgomorphidae (Orthoptera: Acridoidea) from the Pacific and Far East.
8044

A contribution to the knowledge of the Scaphidiidae and Pselaphidae of Korea (Coleoptera).
8046

Notes on British Therevidae (Diptera).
8047

A new genus and several new species of aphid parasites (Hym. Aphidiidae).
8048

The types of tabanids in the zoological collection of the Bavarian States in Munich (Diptera, Tabanidae).
8049

A new species of gall-wasp (Hymenoptera: Cynipidae) from Scotland.
8050

Cytotaxonomy of Aphididae.
8051

New species of the Laspeyresia sueeedana Schiff. group (Lep. Tortricidae).
8052

The systematic position of Brahmaea europaea Hartig (Lepidoptera Brahmaeidae).
8053

Epichnopteryx pusilella Rbl. belongs to the genus Reisseronia Sied. (Lepidoptera, Psychidae).
8054

Paraholaspis ovivora n. sp. (Hym., Torymidae), a parasite of the eggs of the buprestid Sterapis speciosa Klug..
8055

Two new Carambinae for Austria Metacrambus carectellus Zeller in lower Austria, and Chrysocrambus linetellus Fabricius in Karnten.
8056

Species of Lygus (Hahn) (Hemiptera: Miridae) in Scotland.
8057

New Pterostichinae (Colcopt. Carabid.). VIII.
8058

Notes on some species of Cavariella Del Guercio, 1911 (Homoptera: Aphidoidea).
8059

Thaeniothrips vuillcti Bagnall 1933 and Thaeniothrips falsus Priesner 1936.
8061

Investigations concerning the taxonomy of German Thysanoptera. 5. Thaeniotrips linariae Pr. 1928 and Thaeniotrips hildae Tck. 1956.
8062

Discovery of the female of Pemphigostola synemonistis Strand, 1909 (Lepidoptera Agaristidae).
8064

A new subfamily of blind beetle from Idaho ice caves with notes on its bionomics and evolution (Coleoptera: Leiodidae).
8065

The Old World species of the tribe Typopsilopini (Diptera: Ephydridae).
8066

A new subfamily of Lygaeidae (Hemiptera-Heteroptera) from Australia.
8067

A new species of Pseudoseymnus Chapin (Col., Coccinellidae) predaceous on scale insects in West Pakistan.
8072

New and little known species of the family Trioza Forst. (Homoptera, Psyllidae) from Korea.
8150

The labium of Aphelocheirus aestivalis F. as compared with that of typical Naueoridae (Heteroptera).
8169

Investigation into the morphology, taxonomy, and biology of the Podapolipidae (Acarina, Tarsonemini) (Under special consideration, the parallel evolution of the genera feutarsopolipus and Dorsipes with their hosts (Coleopt., Carabidae)).
8173

Sex pheromone specificity: Taxonomie and evolutionary aspects in Lepidoptera.
8179

Predators and parasites of Aphytis (Hym., Aphelinidae).
8206

Chromosomes of the tsetse fly, Glossina palpalis R.-D..
8262

The presence in the vineyards of the Tessin of a nearctic cicadella, new for Switzerland, Seaphoideus littoralis Ball (Hom.Jassidae) a possible carrier of yellow flavescence.
8325

Rice leafhoppers.
8363

The rice gall midge Pachydiplosis oryzae (Wood-Mason).
8371

INSECT TRAPS
Ecological research on arthropods of a sandy beach of the Mediterranean. II. The migrations of Talitrus saltator (Montagu) (Crustacea-Amphipoda).
8122

Color and natural products attracting the adult sugarbeet root maggot in Southcentral Idaho.
8197

Fifty years of research on the pink bollworm in the United States.
8365

Releases of unsexed gamma-irradiated codling moths for population suppression.
8378

INSECT VECTORS
Trans-stadial and transovarial development of disease agents in arthropods.
8095

Recent fundamental work on tsetse flies.
8124

Fungal-inseet mutualism in trees and timber.
8125

Ticks in relation to human diseases caused by Rickettsia species.
8136

Bionomics of Siricidae.
8162

Anopheles moucheti in Cameroon.
8163

Practical importance of insecticide resistance for malaria eradication in tropical Africa.
8273

Mosquito control in and around homes and farmsteads.
8274

Technical problems of malaria eradication in Africa.
8275

Entomological factors in persisting transmission of malaria in eradication programs.
8276

Viruses-agents of disease.
8281

Evidence of transovarial passage of the sowthistle yellow vein virus in the aphid Hyperomyzus lactucae.
8317

The presence in the vineyards of the Tessin of a nearctic cicadella, new for Switzerland, Scaphoideus littoralis Ball (Hom.Jassidae) a possible carrier of yellow flavescence.
8325

Restricted local spread of curly top in tomatoes.
8332

Syncytia formation of mosquito cell cultures mediated by type 2 dengue virus.
8480

INSECTICIDAL AEROSOLS
Mosquito control in and around homes and farmsteads.
8274

INSECTICIDE APPLICATION
The old house borer in Eastern States.
8076

Research on bio-ecology of Sitona crinitus (Herbst) and method for chemical control.
8148

The residual of N,N,N',N'-tetramethylppiperidinophosphonic diamide after injection, tarsal contaet, and topical application to the boll weevil.
8202

Fire on fire ants .
8322

Double your cotton yield by spraying.
8324

Residues of diazinon on field corn treated with granular, eapsular, and ULV formulations for control of the European eorn borer.
8346

How to control insects on field tobaeco.
8347

INSECTICIDE RESIDUAL ACTIVITY
Mode of action, translocation, oxidation, and decomposition of insecticides within the rice plants.
8581

INSECTICIDE RESIDUES
Azodrin for corn earworm and fall armyworm control and its persistance in sweet eorn.
8069

Distribution of insecticides sprayed by airplane on an irrigated corn plot. in: Organic pesticides in the environment; symposium...American Chemical Society, Atlantic City, N.J., Sept. 13-15, 1965. robert J. gould, ed.
8350

Effects of pesticides on raw wastewater.
8524

Techniques and preliminary data of the movement of DDT and Zectran through a forest soil.
8525

Persistence of pesticides in orchards and orchard soils.
8531

Persistence of pesticides in orchards and orchard soils. in; Organic pesticides in the environment; symposium...American Chemical Society, Atlantic City, N.J., Sept. 13-is, 1965. robert J. gould, ed.
8532

Pesticide drift. I. High-clearance vs. aerial application of sprays.
8533

Residue tolerances set for DDT in milk.
8536

Chlorinated insecticides in the body fat of people in the United States.
8538

Co-distillation clean-up for DDT residues estimation.
8539

Distribution of insecticides sprayed by airplane on an irrigated corn plot.
8543

Rapid cleanup of dairy products for analysis of chlorinated insecticide residue by electron capture gas chromatography.
8546

DDT. in: Zweig, Analytieal methods for pesticides, plant growth regulators, and food additives. vol. ii. insecticides.
8549

Note on improved extraction for chlorinated pesticide residues in oysters.
8551

DDT residues in Adelie penguins and a crabeater seal from Antarctiea.
8552

Pesticide drift. II. Mist-blower vs. aerial application of sprays.
8555

Inseeticide-resistant fishes: A potential hazard to consumers.
8562

Response of robins to DDT and methoxychlor.
8565

Distribution of pesticide residues in human body tissues from Montgomery County, Ohio. in: Organic pesticides in the environment; symposium...Ameriean Chemical Society Atlantic City, N.J., Sept. 13-15, 1965. robert J. Gould, ed.
8573

Role of intestinal microflora in the degradation of DDT by rainbow trout (Salmo gairdneri).
8575

Respiratory exposure of dairy animals to pesticides. in: Organic pesticides in the environment; symposium...American Chemical Soeiety, Atlan-

tic City, N.J., Sept. 13-15, 1965. robert J. gould, ed.
8576

GLC determination of residues of disulfoton, oxydemetonmethyl, and their metabolites in tobacco plants.
8596

Thin layer densitometric determination of rotenone and deguelin.
8597

Studies on the effect of sulfuric-fuming nitric acid treatment on the analytical characteristics of toxaphene.
8603

Comparison of four extraction and cleanup procedures for chlorinated pesticide residues in eggs.
8610

INSECTICIDE RESISTANT INSECTS
The length of larval stage in Pyrethroid-resistant and susceptible strains of the house fly, Musca domestica L.
8131

The effect of larval density on mortality of Culex pipiens fatigans due to DDT and dieldrin.
8137

Toxicology and physiology of DDT resistance in the German cockroach.
8138

Persistence of resistant populations after the relaxation of the selection pressure.
8144

Absorption of DDT and metabolism of DDT and related compounds by DDT-RESISTANT codling moths.
8180

Dieldrin resistance in Lucilia sericata (Meig) from Co. Dublin, Eire.
8188

The susceptibility of Culex pipiens molestus forskal in Israel to several insecticides in 1958-1960 and in 1965.
8272

Practical importance of insecticide resistance for malaria eradication in tropical Africa.
8273

Technical problems of malaria eradication in Africa.
8275

Entomological factors in persisting transmission of malaria in eradication programs.
8276

INSECTICIDE SYNERGISTS
Bi-modal effect of piperonyl butoxide on the o- and p-hydroxylations of biphenyl by mouse liver microsomes.
8566

Mode of action of insecticide synergists.
8569

INSECTICIDES
The selective control of simulium larvae by particulate insecticides and its significance in river management.
8020

Controlling wasps.
8071

The old house borer in Eastern States.
8076

Adult housefly control agents. Patent 3,454,638.
8111

Alkyl 2-methylpropenyl ketoxime carbamates. Patent 3,454,642.
8117

The effect of larval density on mortality of Culex pipiens fatigans due to DDT and dieldrin.
8137

Toxicology and physiology of DDT resistance in the German cockroach.
8138

Use of the multiple regression equation in the prediction of the insecticidal activity of anticholinesterase insecticides.
8143

Persistence of resistant populations after the relaxation of the selection pressure.
8144

On the effect of synthetic synergists upon the knockdown speed of pyrethroids against larvae of the common house mosquito, Culex pipiens pallens Coquillett.
8158

Anopheles moucheti in Cameroon.
8163

Dieldrin resistance in Lucilia sericata (Meig) from Co. Dublin, Eire.
8188

Effects of sub-lethal dosages of parathion and carbaryl on the biology of Dysdercus koenigii Fabricius.
8191

Insecticide-cytoplasmic interactions in insects and vertebrates.
8203

Pollen gathering of honey bees reduced by pesticide sprays.
8205

Mosquito control in and around homes and farmsteads.
8274

Entomological factors in persisting transmission of malaria in eradication programs.
8276

Control of bacterial spot of peach in New Jersey.
8288

Grain aphids in New brunswick. IV. Effects of malathion and 2,4-D amine on aphid populations and on yields of oats and barley.
8320

Corn borer outlook.
8321

Fire on fire ants.
8322

Double your cotton yield by spraying.
8324

Forest entomology.
8328

Chemical control of a species of the false chinchbug group on wheat and sugar beets.
8336

Greenbug control in grain sorghum.
8337

How to control insects on field tobacco.
8347

Experiments on the insecticidal control of Oxycanus fuscomaculatus Walker (Lepidoptera: Hepialidae).
8348

Developments in insecticide control of the rice stem borer in Japan.
8356

Fifty years of research on the pink bollworm in the United States.
8365

Insecticide treatment of seed, as a control method of the maize leaf weevil (Tanymecus dilaticollis Gyll.).
8369

Topical, fumigation, and residual toxicity of insecticides to rice stem borers.
8374

Impact of parasites, predators, and diseases on rice pests.
8380

Effect of gamma radiation on the insecticidal efficiency of malathion deposits on wheat and kraft paper.
8519

Dieldrin effects in two generations of penned hen pheasants.
8537

Tolerances of three species of anuran amphibians to five chlorinated hydrocarbon insecticides.
8541

Insecticide-resistant fishes: A potential hazard to consumers.
8562

Response of robins to DDT and methoxychlor.
8565

Hazards of insecticides and residue problems in rice cultivation.
8574

Insecticidal-germicidal compositions of quaternary ammonium ortho phenyl phanate halide complexes. Patent 3,458,629.
8593

GLC determination of residues of disulfoton, oxydemetonmethyl, and their metabolites in tobacco plants.
8596

Shell's versatile products Aldrite 4, Dieldrite 1.5 Vaponite 2 formulated for all P.C.O. business.
8613

INSECTS
Acoustical communication in arthropods.
8073

The connective tissues of insects.
8078

Estimating temperatures and heat flux in insect environments in stubbed cotton fields in the winter.
8121

INTESTINES
The influence of dietary methionine on the amino acid pool of Hymenolepis diminuta in the rat's intestine.
8498

The ultrastructure of the intestinal epithelium of Metastrongylus sp. (Nematodai Strongyloidea).
8501

Binding of 60-co-vitamin B12 by Ascaris suum intestine.
8517

Role of intestinal microflora in the degradation of DDT by rainbow trout (Salmo gairdneri).
8575

IONIZATION
Research with ionizing irradiation on the sterilization and radiosensitivity of Chrysomela decemlineata Say.
8096

IONS
Gut absorption.
8207

IOXYNIL
Formulation studies with ioxynil and bromoxynil. (abstract).
8409

IRON
Plant treatment in relation to the rhizosphere effect. III. Foliar application of certain trace elements and metallic chelates in relation to the rhizosphere microflora of rice (Oryza sativa L.).
8588

IRRADIATION
Research with ionizing irradiation on the sterilization and radiosensitivity of Chrysomela decemlineata Say.
8096

Neoplasms of insects.
8129

On the mechanization of radiosensitization by 5-bromouracil. Studies on 60Co-gamma irradiated phage phi X-174 and its single-stranded infectious DNA.
8599

IRRIGATION
Bacterial top and stalk rot disease of corn in Wisconsin.
8297

Distribution of insecticides sprayed by airplane on an irrigated corn plot. in: Organic pesticides in the environment; symposium...American Chemical Society, Atlantic City, N.J., Sept. 13-15, 1965. robert J. gould, ed.
8350

Distribution of insecticides sprayed by airplane on an irrigated corn plot.
8543

IXODES
Ixodes himalayensis sp. n. (Acarina: Ixodidae) parasitizing small mammals in Himachal Pradesh, India.
8027

Host-parasite interactions and the feeding of blood-sucking arthropods.
8490

IXODIDES
Ticks in relation to human diseases caused by Rickettsia species.
8136

JUNIPERUS
Plant-parasitic nematodes in marginal Pinus ponderosa stands in central New Mexico.
8390

KIDNEY BEANS
Preliminary studies of the effects of cacodylic acid on the activity of 2,4-D and pieloram in bean plants. (abstract).
8438

Stimulation of plant growth. Patent 3,454,391.
8592

KIDNEYS
Relative hypertrophy of the mouse's right kidney.
8460

Observations on the nephridial system of the cestode Moniezia expansa (Rud., 1805).
8499

The fine structure of the protonephridial system in the miracidium of Fasciola hepatica.
8515

KINASES
Studies on the 5'-terminus of turnip yellow mosaic virus RNA.
8316

Effect of 5-fluorouacil and 5-bromo-2'-deoxyuridine on the induction of thymidine kinase in polyoma virusinfected mouse embryo cells.
8488

KINETICS
Studies on the 5'-terminus of turnip yellow mosaic virus RNA.
8316

Site difference for solid tumor growth.
8455

Effect of 5-fluorouacil and 5-bromo-2'-deoxyuridine on the induction of thymidine kinase in polyoma virusinfected mouse embryo cells.
8488

KINETIN
Expression of sexual characteristics in annual mercurials.
8580

LABORATORY ANIMALS
Glomerular response in human and experimental rickettsial disease (Rocky Mountain spotted fever group). A light and electron microscopy study.
8450

Site difference for solid tumor growth.
8455

LABORATORY INSECTS
Nosema sp. infecting a laboratory colony of the alfalfa weevil.
8109

LAMBSQUARTERS
A study of the activity of diphenamid and three analogs. (abstract).
8582

LAMPYRIDAE
The role of the neurohormones in the sexual differentiation of Lampyris noctiluca.
8165

Spectrum analysis of the light emitted by Luciola lusitanica (Charp.).
8195

LARIX LEPTOLEPIS
Pelleted fenuron for conversion of low-quality hardwood stands to Japanese larch.
8433

LARVAE
The selective control of simulium larvae by particulate insecticides and its significance in river management.
8020

Effects of ecdysones on diapause in the European corn borer, Ostrinia nubilalis.
8083

Innervation and neural excitation of ventral muscle fibres of the larva of the waxmoth, Galleria mellonella.
8084

Influence of larval population density on the size of adults, duration of development, and diapause frequency in Pteromalus puparum L. (Hym., Chalcididae).
8088

Cuticular pigments of tobacco hornworm (Manduca sexta) larvae: Effects of diet and genetic differences.
8100

A noninclusion virus of blow-fly larvae.
8105

Ecdysone titres in the last larva adult stages of the milkweed bug.
8115

Laboratory study of the ecological conditions favoring the development of the fungus Beauveria tenella on cockchafer larvae.
8116

The length of larval stage in Pyrethroid-resistant and susceptible strains of the house fly, Musca domestica L.
8131

Immune responses of ligatured Galleria mellonella larvae.
8133

Selection for American foulbrood resistance in larval honey bees.
8134

The effect of larval density on mortality of Culex pipiens fatigans due to DDT and dieldrin.
8137

Nutritional studies of the rice stem borer Chilo suppressalis Walker.
8140

Biological investigations on Pandemis heparana (Den. and Schiff.) with special consideration given to the factors inducing diapause and influencing egg laying.
8155

In vitro synthesis of injury protein and a companion protein in organs of prepupa of Galleria mellonella L..
8156

On the effect of synthetic synergists upon the knockdown speed of pyrethroids against larvae of the common house mosquito, Culex pipiens pallens Coquillett.
8158

Air swallowing- an effective protection against drowning in larvae of Epistrophe balteata (Syrphidae Dipt.).
8185

P32-labeling of common malaria mosquitoes: assimilation by larvae and retention and transfer during mating.
8193

Photoperiod and temperature as factors controlling the diapause of the sunflower moth, Homoeosoma electellum.
8201

Artificial diets for larvae of the oriental fruit moth.
8209

An epizootic disease of Tarichium (Entomophthoraceae) on the larvae of Ocnogyna parasita Hhn. (Lepidoptera, Arctiidae).
8215

Pit construction by myrmeleontid larvae.
8217

The embryogenesis of the larval head of Simulium venustum Say (Diptera: Nematocera).
8225

Genetic and environmental variability for bristles in Drosophila.
8227

Evidence of transovarial passage of the sowthistle yellow vein virus in the aphid Hyperomyzus lactucae.
8317

How to distinguish attacks by the black turpentine beetle and Dioryctria amatella on southern pines.
8339

Assessment of rice loss caused by the rice stem borer.
8353

Recent developments in and future prospects for the chemical control of the rice stem borer at IRRI.
8366

Recent developments in and future prospects for the chemical control of the rice stem borer in India.
8370

Topical, fumigation, and residual toxicity of insecticides to rice stem borers.
8374

The development of Haemonchus contortus in vitro. I. The effect of pH and pCO2 on the rate of development to the fourth-stage larva.
8505

Morphological and histochemical studies on the larval stages of Metastrongylus spp. (lungworms of swine) in the earthworm intermediate host, Eisenia foetida, Savigny 1826.
8506

Gardona as a mothproofer of woolen fabric.
8518

LASPEYRESIA
New species of the Laspeyresia succedana Schiff. group (Lep. Tortricidae).
8052

LASPEYRESIA POMONELLA
Absorption of DDT and metabolism of DDT and related compounds by DDT-RESISTANT codling moths.
8180

Preliminary laboratory study of the effect of X rays on the fertility of Carpocapsa pomonella (Laspeyresia pomonella L.).
8229

Natural enemies of Laspeyresia pomonella L. (Lepidoptera, Tortricidae) and the effect of chemical treatment on their useful activity.
8342

Releases of unsexed gamma-irradiated codling moths for population suppression.
8378

LASPEYRESIA SUCCEDANA
New species of the Laspeyresia succedana Schiff. group (Lep. Tortricidae).
8052

LATE BLIGHT
Save your potato crop from fungal and bacterial diseases.
8286

LAWNS
Effectiveness of preemergence crabgrass herbicides for lawns and putting-green turf.
8417

Control of dandelion and spotted-spurge in lawn turf with herbicides.
8423

LEAF SCORCH
Resistance of strawberry varieties to leaf scorch disease.
8314

LEAVES
Tobacco mosaic virus in dividing mesophyll cells of Nicotiana.
8290

An electron microscopy study of the penetration of tobacco mosaic virus into leaves following experimental inoculation.
8292

Fluorescent antibody staining of tobacco mosaic virus antigen in tobacco mesophyll protoplasts. 8307

An interesting mode of spore liberation by Georgefischeria riveae Thirum. and Naras. 8310

LEGISLATION
Report on the current and planned local noxious weed control programs in New Jersey. 8414

LEGS
Investigations of the morphology and development of the scolopidia in the stick insect Carausius morosus Br. 8141

LEGUMINOSAE
Host-parasite relationships of various plants and the hop cyst nematode, Heterodera humuli. 8391

LEIODIDAE
A new subfamily of blind beetle from Idaho ice caves with notes on its bionomics and evolution (Coleoptera: Leiodidae). 8065

LEPIDOPTERA
A critical review of Bacillus thuringiensis var. Thuringiensis berliner and other crystalliferous bacteria. 8132

Sex pheromone specificity: Taxonomic and evolutionary aspects in Lepidoptera. 8179

The evolution and genetics of insect behaviour. 8228

LEPTINOTARSA DECEMLINEATA
Research with ionizing irradiation on the sterilization and radiosensitivity of Chrysomela decemlineata Say. 8096

LEPTOCORISA VARICORNIS
Ecology of common insect pests of rice. 8368

LESPESIA ARCHIPPIVORA
Effect of temperature on the progeny production and longevity of Lespesia archippivora in the laboratory. 8093

LETHAL FACTOR
Chromosome aberrations associated with recessive sex-linked lethals induced by two alkylating chemicals in mature spermatozoa of Drosophila. 8245

LEUCOCYTOZOON DISEASE
Survival of sporozoites of Leucocytozoon in birds for 11 days. 8462

LEUCOCYTOZOON DUBREUILI
Survival of sporozoites of Leucocytozoon in birds for 11 days. 8462

LEUCOCYTOZOON SIMONDI
Survival of sporozoites of Leucocytozoon in birds for 11 days. 8462

LEUCOPHAEA MADERAE
Formation of tumorlike lesions in the cockroach Leucophaca maderae after nerve severance. 8199

LEUKEMIA
Attempt to detect fowl leukemia virus in living virus vaccines prepared in eggs. 8465

LEUKOCYTES
Leukocyte system of rabbits receiving repeated injections of staphylococcal leukocidin. 8482

LIFE CYCLE
The biology and life cycle of Chilo suppressalis (Walker) and Tryporyza (Schoenobius) incertulas (Walker) in temperature-climate areas. 8149

LIGHT
Influence of light on diapause in the boll weevil. Ii. Dependence of diapause response on narrow bands of visible radiation and a broad band of infrared radiation used to extend the photoperiod. 8128

Spectrum analysis of the light emitted by Luciola lusitanica (Charp.). 8195

Glomerular response in human and experimental rickettsial disease (Rocky Mountain spotted fever group). A light and electron microscopy study. 8450

LIGHT TRAPS
Assessment of the field population of the rice stem borer moth by light trap. 8040

A summary of the forecasting program for rice stem borer control in Japan. 8068

The rice gall midge Pachydiplosis oryzae (Wood-Mason). 8371

LIGUSTRUM
The systematic position of Brahmaea europaea Hartig (Lepidoptera Brahmaeidae). 8053

LINDANE
The old house borer in Eastern States. 8076

Dieldrin resistance in Lucilia sericata (Meig) from Co. Dublin, Eire. 8188

The susceptibility of Culex pipiens molestus forskal in Israel to several insecticides in 1958-1960 and in 1965. 8272

Practical importance of insecticide resistance for malaria eradication in tropical Africa. 8273

Insecticide treatment of seed, as a control method of the maize leaf weevil (Tanymecus dilaticollis Gyll.). 8369

Investigations on the biology and control of Melolontha melolontha in hazelnut plantations. 8377

Seed dressings and game birds. 8444

Identification and measurement of chlorinated organic pesticides in water by electron-capture gas chromatography. 8527

Identification and measurement of chlorinated organic pesticides in water by electron-capture gas chromatography. 8528

Pesticide residues in food. 8535

Rapid cleanup of dairy products for analysis of chlorinated insecticide residue by electron capture gas chromatography. 8546

Residuals of pesticides in cultivated mushrooms. 8556

LINURON
The effects of phytobland oils and spray volume on postemergence activity of atrazine and combinations of atrazine with linuron in corn. 8440

LIPIDS
Nutritional studies of the rice stem borer Chilo suppressalis Walker. 8140

Gut absorption. 8207

Quantitative aspects of lipid utilization during embryogenesis of Ascaris suum eggs. 8503

LISSORHOPTRUS ORYZOPHILUS
Ecology of common insect pests of rice. 8368

LIVER
Survival of sporozoites of Leucocytozoon in birds for 11 days. 8462

Evidence for conversion of DDT to TDE in rat liver: I. Liver/body fat ratios of TDE. 8472

DDT residues in Adelie penguins and a crabeater seal from Antarctica. 8552

Aldrin epoxidase activity of rat liver and rat liver microsomes under various conditions of storage. 8560

Bi-modal effect of piperonyl butoxide on the o- and p-hydroxylations of biphenyl by mouse liver microsomes. 8566

Degradation of parathion in the rat. 8570

Biochemical changes in rat liver in response to treatment with drugs and other agents--II. effects of halothane, DDT, other chlorinated hydrocarbons, thioacetamide, dimethylnitrosamine and ethionine. 8571

LIVESTOCK
Residues of DDT and it's derivatives in the fat tissues of some market animals. 8554

LIVESTOCK DISEASES
Recent fundamental work on tsetse flies. 8124

RNA synthesis in chick embryo cells infected with defferent strains of NDV. 8449

The demonstration of a single species of an unclassified bacterium in five cases of bovine lymphosarcoma. 8469

Identification of Brucella abortus: Oxidative metabolism and phage typing. 8474

Bovine vibriosis. 8478

Preventing and controlling internal parasites of hogs. 8510

LOCOMOTION
Motion and flagellation of Clostridium brevifaciens. 8094

LOCUSTA MIGRATORIA MIGRATORIOIDES
On the phosphagen isolated from eggs of insects. 8108

LOLIUM
From weeds to pasture in one year. 8431

LONGEVITY
Biology of Bracon mellitor, a parasite of the boll weevil. 8070

Effect of temperature on the progeny production and longevity of Lespesia archippivora in the laboratory. 8093

LONGIDORUS MACROSOMA
Contribution to the migratory behavior of Xiphinema diversicaudum (Mikoletzky) Thorne, X. coxi Tarjan and Longidorus macrosoma Hooper, as well as the diffusion of rhubarb mosaic virus in the field. 8382

LOSSES
Fish losses after forest sprayings with insecticides in New Brunswick, 1952-62, as shown by caged specimens and other observations. 8567

LUCILIA CUPRINA
Dieldrin resistance in Lucilia sericata (Meig) from Co. Dublin, Eire. 8188

LUCIOLA LUSITANICA
Spectrum analysis of the light emitted by Luciola lusitanica (Charp.). 8195

LUMINESCENCE
Spectrum analysis of the light emitted by Luciola lusitanica (Charp.). 8195

LYCHNIS ALBA
Control of yellow rocket (Barbarea vulgaris) and other broadleaf weeds associated with estahlished alfalfa.
8402

LYCOPERSICON
Lycopersicon an Solanum spp. resistant to the earmine and the two-spotted spider mite.
8343

LYGAEIDAE
A new subfamily of Lygaeidae (Hemiptera-Heteroptera) from Australia.
8067

Chemieal eontrol of a speeies of the false ehineh-bug group on wheat and sugar beets.
8336

LYGUS
Speeies of Lygus (Hahn) (Hemiptera: Miridae) in Seotland.
8057

LYMPH NODES
The demonstration of a single speeies of an un-elassified baeterium in five eases of bovine lymphosareoma.
8469

LYMPHOSARCOMA
The demonstration of a single speeies of an un-elassified haeterium in five eases of bovine lymphosareoma.
8469

LYTTA VIRIDANA
The embryology of Lytta viridana Le Conte (Coleoptera: Meloidae). IV. Chromatin elimination.
8261

MACROCHELIDAE
Contribution to the knowledge of the genus Holostaspella Berlese 1903 (Acari: Mesostigmata: Maeroehelidae).
8032

MACRONUTRIENTS
The effeet of diphenamid on the uptake and distrihution of maeronutrient elements in eabbage.
8305

MACROSIPHUM AVENAE
Grain aphids in New brunswiek. IV. Effeets of malathion and 2,4-D amine on aphid populations and on yields of oats and harley.
8320

MAGNESIUM
Movement of ealeium and magnesium aeross the midgut epithelium of the Ameriean eoekroaeh.
8183

MALACOSOMA
Ovieidal effieieney of parathion and diazion for quarantine treatment of the Western tent eaterpillar.
8376

MALACOSOMA PLUVIALE
Ovieidal effieieney of parathion and diazion for quarantine treatment of the Western tent eaterpillar.
8376

MALARIA
Anopheles moueheti in Cameroon.
8163

Praetieal importanee of inseetieide resistanee for malaria eradieation in tropieal Afriea.
8273

Teehnieal problems of malaria eradieation in Afriea.
8275

Entomologieal faetors in persisting transmission of malaria in eradieation programs.
8276

MALATHION
Praetieal importanee of resistanee to inseetieides in Anopheles.
8099

The suseeptibility of Culex pipiens molestus forskal in Israel to several inseetieides in 1958-1960 and in 1965.
8272

Mosquito eontrol in and around homes and farmsteads.
8274

Grain aphids in New brunswiek. IV. Effeets of malathion and 2,4-D amine on aphid populations and on yields of oats and barley.
8320

Double your eotton yield by spraying.
8324

Forest entomology.
8328

Chemieals that take eare of the mango hopper.
8329

Chemieal eontrol of a speeies of the false ehineh-bug group on wheat and sugar beets.
8336

Riee leafhoppers.
8363

Some reeommendations for the eontrol of perforators of seeds of Anonaeeae (Bephrata sp. order Hymenoptera).
8372

Apple ehaleid, Torymus varians (Wlk.), (Hymenoptera: Torymidae), in Quebee.
8373

Ovieidal effieieney of parathion and diazion for quarantine treatment of the Western tent eaterpillar.
8376

Effeet of gamma radiation on the inseetieidal effieieney of malathion deposits on wheat and kraft paper.
8519

Malathion-indueed teratisms in the developing ehiek.
8564

Fish losses after forest sprayings with inseetieides in New Brunswiek, 1952-62, as shown by eaged speeimens and other observations.
8567

MAMMALS
Studies on the behaviour of Lueilia illustris Meigen as a parasite of vertebrates under experimental eonditions.
8103

Avian and mammalian predators of forest inseets.
8330

Biology and eeonomie importanee of the chigger Neoseliongastia amerieana on turkeys.
8489

MANAGEMENT
Administration of aquatie nuisanee eontrol in Ontario.
8534

MANDIBULAR GLANDS
The alarm-defenee system of the ant Lasius alienus.
8174

MANDUCA SEXTA
Cutieular pigments of tobaeeo hornworm (Manduea sexta) larvae: Effeets of diet and genetie differenees.
8100

MANEB (ZINC ION)
Neek rot in onions.
8296

MANGANESE
Plant treatment in relation to the rhizosphere effeet. III. Foliar application of eertain traee elements and metallie ehelates in relation to the rhizosphere microflora of riee (Oryza sativa L.).
8588

MANGOES
Chemieals that take eare of the mango hopper.
8329

MANOMETRY
Comparison of assay methods for studying O,O-diethyl, O-p-nitrophenyl phosphate (paraoxon) detoxifieation in vitro.
8568

MARINE BIOLOGY
DDT reduees photosynthesis by marine phytoplankton.
8557

MARKETING
Residues of DDT and it's derivatives in the fat tissues of some market animals.
8554

MARKETING RESEARCH
The Gold Crest Pest Control Program for the pest eontrol industry.
8614

MARKOV CHAINS
Analysis of sequenees of matings in Drosophila mating ehamber experiments.
8184

MATHEMATICAL ANALYSIS
Analysis of sequenees of matings in Drosophila mating ehamber experiments.
8184

MEDICAL ENTOMOLOGY
Praetieal importanee of resistanee to inseetieides in Anopheles.
8099

Anopheles moueheti in Cameroon.
8163

Praetieal importanee of inseetieide resistanee for malaria eradieation in tropieal Afriea.
8273

Teehnieal problems of malaria eradieation in Afriea.
8275

Entomologieal faetors in persisting transmission of malaria in eradieation programs.
8276

MEDITERRANEAN AREA
Contribution to the knowledge of the Cureulionidae from the western Mediterranean. VI. The genus Seidlitzia.
8036

MEIOSIS
The synaptomere-zygosome-reeombinase hypothesis of meiotie erossing over in Drosophila.
8238

Lampbrush ehromosomes and multiple nueleoli of Orthoptera.
8239

X-ray indueed reversal of heteroehromatization in male mealy bugs.
8256

MELOIDAE
The embryology of Lytta viridana Le Conte (Coleoptera: Meloidae). IV. Chromatin elimination.
8261

MELOIDOGYNE
Contributions to the knowledge of the Italian nematode fauna. I. Genus Meloidgyne Goeldi, 1887.
8388

MELOIDOGYNE ARENARIA
Contributions to the knowledge of the Italian nematode fauna. I. Genus Meloidgyne Goeldi, 1887.
8388

MELOIDOGYNE HAPLA
Multiple applieations of 1,2-dibromo-3-ehloropropane for eontrol of nematodes in established rose plantings.
8384

Contributions to the knowledge of the Italian nematode fauna. I. Genus Meloidgyne Goeldi, 1887.
8388

MELOIDOGYNE INCOGNITA
Contributions to the knowledge of the Italian nematode fauna. I. Genus Meloidgyne Goeldi, 1887.
8388

MELOIDOGYNE JAVANICA
Contributions to the knowledge of the Italian nematode fauna. I. Genus Meloidgyne Goeldi, 1887.
8388

MELOLONTHA MELOLONTHA
Laboratory study of the ecologieal conditions favoring the development of the fungus Beauveria tenella on eockchafer larvae.
8116

Researeh on the pathogenesis of Nosema melolonthae Krieg..
8146

Investigations on the biology and control of Melolontha melolontha in hazelnut plantations.
8377

MERCURIALIS
Expression of sexual characteristics in annual mercurials.
8580

MERCURY CHLORIDE
Save your potato crop from fungal and bacterial diseases.
8286

MERCURY COMPOUNDS
Seed dressings and game birds.
8444

MESOSTIGMATA
Contribution to the knowledge of the genus Holostaspella Berlese 1903 (Acari: Mesostigmata: Macrochelidae).
8032

METABOLISM
Phenoxazinone synthesis in Drosophila melanogaster.
8170

Activities in unfertilized and fertilized Drosophila eggs of enzymes in the nucleic acid biosynthetic pathway.
8194

Identification of Brucella abortus: Oxidative metabolism and phage typing.
8474

The influence of dietary methionine on the amino acid pool of Hymenolepis diminuta in the rat's intestine.
8498

Quantitative aspects of lipid utilization during embryogenesis of Ascaris suum eggs.
8503

Degradation of parathion in the rat.
8570

Biochemical changes in rat liver in response to treatment with drugs and other agents--II. effects of halothane, DDT, other chlorinated hydrocarbons, thioacetamide, dimethylnitrosamine and ethionine.
8571

Structure-activity and metabolism studies on organophosphate teratogens and their alleviating agents in developing hen eggs with special emphasis on Bidrin.
8572

Role of intestinal microflora in the degradation of DDT by rainbow trout (Salmo gairdneri).
8575

Effect of dichlobenil on anthocyanin development in Vaccinium macrocarpon (var. early black).
8578

METABOLITES
Toxicology and physiology of DDT resistance in the German cockroach.
8138

Absorption of DDT and metabolism of DDT and related compounds by DDT-RESISTANT codling moths.
8180

Persistence of pesticides in orchards and orchard soils. in; Organic pesticides in the environment; symposium...American Chemical Society, Atlantic City, N.J., Sept. 13-is, 1965. robert J. gould, ed.
8532

Chlorinated insecticides in the body fat of people in the United States.
8538

Insecticide-resistant fishes: A potential hazard to consumers.
8562

Role of intestinal microflora in the degradation of DDT by rainbow trout (Salmo gairdneri).
8575

Translocation patterns of simazine in Potamogeton crispus l.
8591

GLC determination of residues of disulfoton, oxydemetonmethyl, and their metabolites in tobacco plants.
8596

METAMORPHOSIS
Changes in nitrogenous compounds during the metamorphosis of the blowfly, Lucilia cuprina.
8086

Research with ionizing irradiation on the sterilization and radiosensitivity of Chrysomela decemlineata Say.
8096

Relationship between the proteins of the haemolymph and fat body during development of Pieris brassicae.
8097

Photoperiod and temperature as factors controlling the diapause of the sunflower moth, Homoeosoma electellum.
8201

Haemocyte activity in relation to epidermal cell growth, cuticle secretion, and cell death in a metamorphosing cyclorrhaphan pupa.
8212

METASTRONGYLUS
The ultrastructure of the intestinal epithelium of Metastrongylus sp. (Nematodai Strongyloidea).
8501

Morphological and histochemical studies on the larval stages of Metastrongylus spp. (lungworms of swine) in the earthworm intermediate host, Eisenia foetida, Savigny 1826.
8506

METEOROLOGY
The air pollution menace of ragweed pollen.
8526

METHIONINE
The influence of dietary methionine on the amino acid pool of Hymenolepis diminuta in the rat's intestine.
8498

METHODOLOGY
Biochemistry and taxonomy.
8060

A method for the recovery of nematode eggs from faeces.
8513

METHOXYCHLOR
Mosquito control in and around homes and farmsteads.
8274

Pesticide drift. I. High-clearance vs. aerial application of sprays.
8533

Pesticide drift. II. Mist-blower vs. aerial application of sprays.
8555

Response of robins to DDT and methoxychlor.
8565

METHYL BROMIDE
Effect of carbon dioxide on toxicity of hydrocyanic acid and methyl bromide to adults of the confused flour beetle and granary weevil at two different temperatures.
8074

METHYL O-(METHYLCARBAMYL)THIOLACETOHYDROXAMATE
Hydroxamate carbamates as nematocides. patent 3,459,866.
8285

METHYL PARATHION
Greenbug control in grain sorghum.
8337

METHYLDIPHENYLACETAMIDE, N
A study of the activity of diphenamid and three analogs. (abstract).
8582

MICE
Site difference for solid tumor growth.
8455

Demonstration with indirect immunofluorescence of a cellular epsilon-antigen of the mouse.
8459

Relative hypertrophy of the mouse's right kidney.
8460

Studies on mouse leukemia viruses. I. Isolation and characterization of a group-specific antigen.
8477

Effect of 5-fluorouracil and 5-bromo-2'-deoxyuridine on the induction of thymidine kinase in polyoma virusinfected mouse embryo cells.
8488

Activity of ,parbendazole upon Trichinella spiralis in mice.
8508

The significance of DDT in household and structural pest control - 1969.
8523

Dynamics of arsenic cumulation in hairless mice after peroral administration.
8559

Bi-modal effect of piperonyl butoxide on the o- and p-hydroxylations of biphenyl by mouse liver microsomes.
8566

MICROBIOLOGY
Motion and flagellation of Clostridium brevifaciens.
8094

MICROMONOSPORA CHALCEA
Antibiotics 460 and methods for their production. Patent 3,454,696.
8485

MICROORGANISMS
The possible control of rice stem borers by the use on natural enemies.
8379

Role of intestinal microflora in the degradation of DDT by rainbow trout (Salmo gairdneri).
8575

MICROSCOPY
Teliospore morphology of some smut fungi. II. Light microscopy.
8300

MICROSOMES
Insecticide-cytoplasmic interactions in insects and vertebrates.
8203

Aldrin epoxidase activity of rat liver and rat liver microsomes under various conditions of storage.
8560

Bi-modal effect of piperonyl butoxide on the o- and p-hydroxylations of biphenyl by mouse liver microsomes.
8566

Degradation of parathion in the rat.
8570

Biochemical changes in rat liver in response to treatment with drugs and other agents--II. effects of halothane, DDT, other chlorinated hydrocarbons, thioacetamide, dimethylnitrosamine and ethionine.
8571

MICROSPORIDIA
Ineffectiveness of a microsporidian and a granulosis virus in activating a cytoplasmic polyhedrosis virus in the alfalfa caterpillar, Colias eurytheme.
8198

MILK
Residue tolerances set for DDT in milk.
8536

Secretion of DDT by lactating cows fed thyroprotein.
8553

MILK FAT
Respiratory exposure of dairy animals to pesticides. in: Organic pesticides in the environment; symposium...American Chemical Society, Atlantic City, N.J., Sept. 13-15, 1965. robert J. gould, ed.
8576

MINERAL OIL
Ovicidal efficiency of parathion and diazion for quarantine treatment of the Western tent caterpillar.
8376

MINKS
Diseases of mink.
8466

MIREX
Fire on fire ants.
8322

MIST BLOWERS
Pesticide drift. II. Mist-blower vs. aerial application of sprays.
8555

MITES
Contribution to the knowledge of the genus Holostaspella Berlese 1903 (Acari: Mesostigmata: Maerochelidae).
8032

The response of a predator, Hypoaspis aculeifer (Canestrini) (Acarina:Laelapidae), to two species of prey.
8081

Effects of introduced irradiated male grain mites on population development.
8091

Feeding and reproduction of the grain and the mushroom mite on wood-inhabiting hymenomyeetes.
8192

Lycopersicon an Solanum spp. resistant to the carmine and the two-spotted spider mite.
8343

MITOCHONDRIA
Relative hypertrophy of the mouse's right kidney.
8460

MITOSIS
Investigations of the morphology and development of the scolopidia in the stiek insect Carausius morosus Br.
8141

Tobacco mosaic virus in dividing mesophyll cells of Nieotiana.
8290

Autoradiographic study of the effect of Newcastle disease virus on the mitotic eycle of eells.
8456

MODELS
Parasites as biological models.
8507

MOLLUSCACIDES
Nitrophenyl carbamie acid esters as molluscicides. Patent 3,458,639.
8442

MOLYBDENUM
Plant treatment in relation to the rhizosphere effect. III. Foliar application of certain trace elements and metallie ehelates in relation to the rhizosphere mieroflora of riee (Oryza sativa L.).
8588

MONIEZIA EXPANSA
Observations on the nephridial system of the eestode Moniezia expansa (Rud., 1805).
8499

MORACEAE
Host-parasite relationships of various plants and the hop eyst nematode, Heterodera humuli.
8391

MORPHOLOGY
New species of Ceratocystis associated with bark injuries on deciduous fruit trees.
8289

Teliospore morphology of some smut fungi. II. Light microscopy.
8300

The strueture of the respiratory syncytial virus.
8461

Ultrastructural studies on the sporozoite of Eimeria tenella.
8476

The vulvar region of Haemonehus contortus (Nematoda Trichostrongylidae) in Spanish sheep, with the description supporting possible subspeeies, H. contortus hispanieus.
8496

Observations on the nephridial system of the cestode Moniezia expansa (Rud., 1805).
8499

The ultrastructure of the intestinal epithelium of Metastrongylus sp. (Nematodai Strongyloidea).
8501

Morphologieal and histochemieal studies on the larval stages of Metastrongylus spp. (lungworms of swine) in the earthworm intermediate host, Eisenia foetida, Savigny 1826.
8506

The excretory system of the kidney worm Stephanurus dentatus (Nematoda).
8512

Serological and morphologieal studies on the inter- and intraspecific differenees of the plant-parasitic nematodes Heterodera and Ditylenchus.
8514

The fine strueture of the protonephridial system in the miraeidium of Fasciola hepatica.
8515

The toxicity and sublethal effeets of p p'-DDT and dieldrin to Aglais urtieae (L.) (Lepidoptera: Nymphalidae) and Chorthippus brunneus (Thunberg) (Saltatoria:Acrididae).
8550

MORTALITY
Research with ionizing irradiation on the sterilization and radiosensitivity of Chrysomela decemlineata Say.
8096

Laboratory study of the ecological conditions favoring the development of the fungus Beauveria tenella on cockchafer larvae.
8116

Biologieal investigations on Pandemis heparana (Den. and Schiff.) with special consideration given to the faetors indueing diapause and influencing egg laying.
8155

Effects of sub-lethal dosages of parathion and carbaryl on the biology of Dysdercus koenigii Fabricius.
8191

Sterility, lethality and segregation ratios in XYY males of Drosophila melanogaster.
8233

Grain aphids in New brunswiek. IV. Effects of malathion and 2,4-D amine on aphid populations and on yields of oats and barley.
8320

A nucleopolyhedrosis virus in populations of the Douglas-fir tussock moth, Hemerocampa pseudotsugata, in California.
8335

Dieldrin effects in two generations of penned hen pheasants.
8537

Malathion-induced teratisms in the developing chick.
8564

Response of robins to DDT and methoxychlor.
8565

MOSAIC
Tobacco mosaic virus in dividing mesophyll cells of Nicotiana.
8290

An electron microscopy study of the penetration of tobaeco mosaic virus into leaves following experimental inoculation.
8292

Identifieation of viruses isolated from cowpeas in Alabama.
8295

Degradation of turnip yellow mosaic virus by freezing and thawing in vitro: a new method for studies on the internal organization of the viral components and for isolating native RNA.
8299

Fluorescent antibody staining of tobacco mosaic virus antigen in tobacco mesophyll protoplasts.
8307

Contribution to the migratory behavior of Xiphinema diversicaudum (Mikoletzky) Thorne, X. eoxi Tarjan and Longidorus maerosoma Hooper, as well as the diffusion of rhubarb mosaic virus in the field.
8382

MOTTLE
Identifieation of viruses isolated from cowpeas in Alabama.
8295

MOUSE LEUKEMIA COMPLEX VIRUSES
Studies on mouse leukemia viruses. I. Isolation and characterization of a group-specific antigen.
8477

MUCINS
The development of Haemonchus contortus in vitro. I. The effect of pH and pCO2 on the rate of development to the fourth-stage larva.
8505

MULCHES
Lieorice-root - dichlobenil mulch combination for control of weeds in boxwood plantings.
8406

MUSCA DOMESTICA
The incorporation of amino-alcohols into the phospholipids of the adult housefly, Musca domestica.
8090

On the phosphagen isolated from eggs of inseets.
8108

Adult housefly eontrol agents. Patent 3,454,638.
8111

Alkyl 2-methylpropenyl ketoxime carbamates. Patent 3,454,642.
8117

The length of larval stage in Pyrethroid-resistant and susceptible strains of the house fly, Musca domestiea L.
8131

Use of the multiple regression equation in the prediction of the insecticidal activity of anticholinesterase insecticides.
8143

Persistenee of resistant populations after the relaxation of the selection pressure.
8144

Detection and partial characterization of a crossover suppressor on ehromosome V of the house fly.
8248

Male determining faetors found on 3 autosomes in the house fly, Musca domestica L..
8271

MUSCLES
Innervation and neural excitation of ventral muscle fibres of the larva of the waxmoth, Galleria mellonella.
8084

The role of the nervous system in insect morphogenesis and regeneration.
8168

MUSHROOMS
Residuals of pesticides in cultivated mushrooms.
8556

MUTAGENS
The complementation map of mutations in a small region of the X-chromosome of Drosophila melanogaster.
8235

Chromosome aberrations associated with reeessive sex-linked lethals induced by two alkylating chemicals in mature spermatozoa of Drosophila.
8245

Caffeine and radiation indueed mutations in Drosophila melanogaster.
8250

Cytogenetic effects of hydrogen fluoride on Drosophila melanogaster.
8251

Genetic and physiologieal effects of ethylenimine in Habrobracon females.
8270

Ethylene dibromide: a potent pesticide with high motagenic activity.
8302

MUTATION
Isolation of the novel regulatory mutants of the tryptophan biosynthetic system in Escherieia coli.
8602

MUTTON
Pesticide residues in food.
8535

MYCELIUM
A black mildew, of the genus Diporotheca, found on roots of Nicotiana tabacum in Connecticut.
8278

Alternaria seed infection of wheat.
8283

MYCOBACTERIUM BOVIS
The electrical resistivity of suspensions of mycohaeteria. Comparative study on various species. Taxonomic applications.
8611

MYCOBACTERIUM TUBERCULOSIS
The electrical resistivity of suspensions of mycohacteria. Comparative study on various speeies. Taxonomic applications.
8611

MYCOLOGY
An epizootic disease of Tarichium (Entomophthoraeeae) on the larvae of Ocnogyna parasita Hbn. (Lepidoptera, Aretiidae).
8215

Notes on fungi responsihle for the decay of hickory nuts.
8284

New species of Ceratocystis associated with bark injuries on deciduous fruit trees.
8289

Teliospore morphology of some smut fungi. II. Light mieroscopy.
8300

MYCORRHIZA
Influenee of soil sterilization measures on the Mycorrhiza of forest plants. (I.).
8279

MYCOSPHAERELLA MELONIS
A new symptom of gummy stem blight (Mycosphaerella melonis) on cucumber fruit.
8315

MYIASIS
Studies on the behaviour of Lucilia illustris Meigen as a parasite of vertebrates under experimental conditions.
8103

MYRMECOCYSTUS LUGUBRIS
Variation-statistical research on the female of Formica luguhris Zett.
8153

MYRMELEONTIDAE
Pit construction by myrmeleontid larvae.
8217

MYXOVIRUSES
The structure of the respiratory syncytial virus.
8461

MYZUS PERSICAE
How to control insects on field tohacco.
8347

NALED
Pollen gathering of honey hees reduced by pesticide sprays.
8205

NATURAL CONTROL (INSECTS)
Insect parasite complex berseem armyworm Spodoptera exigua (Hubn.) (Lepidoptera, Noctuidae).
8082

Impact of pathogens, parasites, and predators on aphids.
8126

Avian and mammalian predators of forest insects.
8330

Natural enemies of Laspeyresia pomonella L. (Lepidoptera, Tortricidae) and the effect of ehemical treatment on their useful activity.
8342

The natural enemies of the chaff scale, Parlatoria pergandii Comstock, in Israel.
8344

Impact of parasites, predators, and diseases on rice pests.
8380

NATURAL SELECTION
Natural selection on the degree of dominance of viahility polygenes in Drosophila melanogaster.
8254

NAUCORIDAE
The labium of Aphelocheirus aestivalis F. as compared with that of typical Naueoridae (Heteroptera).
8169

NECK ROT
Neck rot in onions.
8296

NECROSIS
Use of caeao pod for recovering Phytophthora species pathogenic to Hevea brasiliensis.
8287

NEMATOCIDES
Hydroxamate carbamates as nematocides. patent 3,459,866.
8285

Multiple applications of 1,2-dibromo-3-chloropropane for control of nematodes in established rose plantings.
8384

NEMATODE POPULATION
First observations on the resistance of a hybrid potato variety to some Italian populations of Heterodera rostochiensis Woll.
8381

NEMATODES
Powdery mildew of hydrangeas.
8303

Gastrointestinal nematodes of Venezuelan carnivora.
8492

Population studies on the infective stage of some nematode parasites of sheep. II. The distribution of faecal deposits on fields grazed by sheep.
8494

Effect of heterologous antibody on Haenonchus contortus development in vitro.
8500

A method for the recovery of nematode eggs from faeces.
8513

Redescription of Ornithobilharzia canaliculata (Rud.) Odhner, with notes on classification of the genus Ornithobilharzia and the subfamily Schistosomatinae (Trematoda).
8516

NEMATODIRUS
A method for the recovery of nematode eggs from faeces.
8513

NEODIPRION
Neodiprion taedae linearis: A sawfly pest of loblolly and shortleaf pines.
8334

NEOPLASMS
Neoplasms of insects.
8129

Immunologic reactions in animals with tumors.
8446

Site difference for solid tumor growth.
8455

Demonstration with indirect immunofluorescence of a cellular epsilon-antigen of the mouse.
8459

Attempt to detect fowl leukemia virus in living virus vaccines prepared in eggs.
8465

The demonstration of a single species of an unclassified bacterium in five cases of bovine lymphosarcoma.
8469

NEOSCHONGASTIA AMERICANA
Biology and economic importance of the chigger Neoschongastia americana on turkeys.
8489

NEOVOSSIA BRACHYPODII
Teliospore morphology of some smut fungi. II. Light microscopy.
8300

NEOVOSSIA HORRIDA
Teliospore morphology of some smut fungi. II. Light microscopy.
8300

NEOVOSSIA INDICA
Teliospore morphology of some smut fungi. II. Light microscopy.
8300

NERVES
Neoplasms of insects.
8129

Investigations of the morphology and development of the scolopidia in the stick insect Carausius morosus Br.
8141

Formation of tumorlike lesions in the cockroach Leucophaea maderae after nerve severance.
8199

NERVOUS SYSTEM
Innervation and neural excitation of ventral muscle fibres of the larva of the waxmoth, Galleria mellonella.
8084

The role of the nervous system in insect morphogenesis and regeneration.
8168

Aeoustic interneurons in the brain of noctuid moths.
8177

The effects of an acute DDT exposure on the spontaneous electrical aetivity of goldfish cerebellum.
8558

NEUROENDOCRINES
The role of the neurohormones in the sexual differentiation of Lampyris noctiluca.
8165

NEUROSPORA CRASSA
Ethylene dibromide: a potent pesticide with high motagenic activity.
8302

NEWCASTLE DISEASE VIRUS
RNA synthesis in chick embryo cells infected with defferent strains of NDV.
8449

Recombination in Newcastle disease virus (NDV): the problem of complementing heterozygotes.
8453

Histone-mediated clumping of Newcastle disease virus (NDV).
8454

Autoradiographic study of the effect of Newcastle disease virus on the mitotic cycle of cells.
8456

NICOTINAMIDE
Structure-activity and metabolism studies on organophosphate teratogens and their alleviating agents in developing hen eggs with special emphasis on Bidrin.
8572

NICOTINIC ACID
Structure-activity and metabolism studies on organophosphate teratogens and their alleviating agents in developing hen eggs with special emphasis on Bidrin.
8572

NITRIC ACID
Studies on the effect of sulfuric-fuming nitric acid treatment on the analytical characteristics of toxaphene.
8603

NITROGEN
Piricularia oryzae, a problem common to rice growing countries.
8282

Effect of organic and inorganic nitrogen on nematode populations on turf.
8383

Influence of 2,4-D and streptomycin on the nitrogen metabolism of buckwheat seedlings and its relation to the anthocyanin biosynthesis.
8587

NITROGEN COMPOUNDS
Changes in nitrogenous compounds during the metamorphosis of the blowfly, Lucilia cuprina.
8086

NITROPHENOL, P
Acid phosphatase activity in the digestive system of the desert locust Schistocerca gregaria (Forskal).
8166

NITROSODIMETHYLAMINE, N
Biochemical changes in rat liver in response to treatment with drugs and other agents--II. effects of halothane, DDT, other chlorinated hydrocarbons, thioacetamide, dimethylnitrosamine and ethionine.
8571

NOCTUIDAE
A new Mythimna O. from East Turkey (Contribution to the knowledge of Noctuidae Trifinae 152).
8022

Taxonomy of the rice stem borers.
8041

Acoustic interneurons in the brain of noctuid moths.
8177

Control of paddy stem borers by cultural practices.
8319

How to control insects on field tobacco.
8347

Varietal resistance to rice stem borers in India.
8355

Varietal resistance to rice stem borers at IRRI.
8367

Ecology of common insect pests of rice.
8368

The possible control of rice stem borers by the use on natural enemies.
8379

NOMENCLATURE
An epizootic disease of Tarichium (Entomophthoraceae) on the larvae of Ocnogyna parasita Hhn. (Lepidoptera, Arctiidae).
8215

NOSEMA
Nosema sp. infecting a laboratory colony of the alfalfa weevil.
8109

Research on the pathogenesis of Nosema melolonthae Krieg..
8146

NOSEMA DISEASE
Compounds tested for control of Nosema in honey bees.
8160

NOSOPSYLLUS FASCIATUS
The fine-structure of the epimastigote forms of Trypanosoma lewisi in the rectum of the flea, Nosopsyllus fasciatus.
8161

NUCLEAR POLYHEDROSIS VIRUS
New ultracytological findings in insect nuclear polyhedroses.
8152

A nucleopolyhedrosis virus in populations of the Douglas-fir tussock moth, Hemerocampa pseudotsugata, in California.
8335

The application of a polyhedral nuclear virus for the control of Lymantria dispar L. larvae.
8358

NUCLEIC ACIDS
Activities in unfertilized and fertilized Drosophila eggs of enzymes in the nucleic acid biosynthetic pathway.
8194

NUTS
Notes on fungi responsible for the decay of hickory nuts.
8284

NYMPHALIDAE
The toxicity and sublethal effects of p p'-DDT and dieldrin to Aglais urticae (L.) (Lepidoptera: Nymphalidae) and Chorthippus brunneus (Thunberg) (Saltatoria:Acrididae).
8550

NYSIUS ERICAE
Chemical control of a species of the false chinchbug group on wheat and sugar beets.
8336

OATS
Grain aphids in New brunswick. IV. Effects of malathion and 2,4-D amine on aphid populations and on yields of oats and barley.
8320

Recognition of a greenbug biotype injurious to sorghum.
8349

A three year summary of weed control for establishment of legume seedings.
8397

OBELISCOIDES CUNICULI
Hemoglobins of parasitic nematodes. II. Electrophoretic analysis of the multiple hemoglobins of adults and developmental stages of the rabbit stomach worm, Obeliscoides cuniculi.
8495

OCNOGYNA
An epizootic disease of Tarichium (Entomophthoraceae) on the larvae of Ocnogyna parasita Hbn. (Lepidoptera, Arctiidae).
8215

OILS
Effects of oil and surfactant on residues of atrazine in field grown corn.
8540

OLEACEAE
The systematic position of Brahmaea europaea Hartig (Lepidoptera Brahmaeidae).
8053

OLETHREUTIDAE
Preliminary laboratory study of the effect of X rays on the fertility of Carpocapsa pomonella (Laspeyresia pomonella L.).
8229

ONCOPELTUS FASCIATUS
Ecdysone titres in the last larva adult stages of the milkweed bug.
8115

Inheritance of semi-sterility and transmission of chromosome rearrangements and fragments for 3 generations in the large milkweed bug.
8241

ONIONS
Neck rot in onions.
8296

OPIUS
Genus Opius Wesmael: New revision of the Neotropical species of the crassiceps group.
8033

ORANGES
Effect of crinkle-scurf of citrus on tree growth, productivity, and fruit quality.
8312

ORCHARDS
Note on the efficiency of Prospaltella perniciosi Tow. in France.
8326

Persistence of pesticides in orchards and orchard soils.
8531

ORGANIC COMPOUNDS
Effect of organic and inorganic nitrogen on nematode populations on turf.
8383

ORGANOPHOSPHORUS COMPOUNDS
Pesticide usage in relation to beekeeping.
8075

Effects of sub-lethal dosages of parathion and carbaryl on the biology of Dysdercus koenigii Fabricius.
8191

Insecticide-cytoplasmic interactions in insects and vertebrates.
8203

Pollen gathering of honey bees reduced by pesticide sprays.
8205

Comparison tests between various active ingredients employed during 1966 in the control of the flea beetle of the beet (Chaetocnema tibialis).
8208

Mosquito control in and around homes and farmsteads.
8274

Piricularia oryzae, a problem common to rice growing countries.
8282

Phospho-acid esters as fungitoxic agents. Patent 3,459,857.
8313

Grain aphids in New brunswick. IV. Effects of malathion and 2,4-D amine on aphid populations and on yields of oats and barley.
8320

Corn borer outlook.
8321

Double your cotton yield by spraying.
8324

Forest entomology.
8328

Control of the boll weevil by mechanically destroying fallen infested cotton squares.
8331

Chemical control of a species of the false chinchbug group on wheat and sugar beets.
8336

Greenbug control in grain sorghum.
8337

Cabbage looper control in Florida - a cooperative program.
8345

Residues of diazinon on field corn treated with granular, capsular, and ULV formulations for control of the European corn borer.
8346

How to control insects on field tobacco.
8347

Experiments on the insecticidal control of Oxycanus fuscomaculatus Walker (Lepidoptera: Hepialidae).
8348

Developments in insecticide control of the rice stem borer in Japan.
8356

Rice leafhoppers.
8363

Fifty years of research on the pink bollworm in the United States.
8365

Recent developments in and future prospects for the chemical control of the rice stem borer at IRRI.
8366

Insecticide treatment of seed, as a control method of the maize leaf weevil (Tanymecus dilaticollis Gyll.).
8369

Topical, fumigation, and residual toxicity of insecticides to rice stem borers.
8374

Ovicidal efficiency of parathion and diazion for quarantine treatment of the Western tent caterpillar.
8376

Releases of unsexed gamma-irradiated codling moths for population suppression.
8378

Complexes of phosphorus pentafluoride oximes as herbicides. Patent 3,455,674.
8399

Aminophosphonate herbicides. Patent 3,455,675.
8415

Gardona as a mothproofer of woolen fabric.
8518

ORNITHOBILHARZIA

Effect of gamma radiation on the insecticidal efficiency of malathion deposits on wheat and kraft paper.
8519

Determination of pesticides in water by microcoulometric gas chromatography after liquid-liquid extraction.
8530

Residuals of pesticides in cultivated mushrooms.
8556

Malathion-indueed teratisms in the developing chick.
8564

Mode of action of insecticide synergists.
8569

Degradation of parathion in the rat.
8570

Structure-activity and metaholism studies on organophosphate teratogens and their alleviating agents in developing hen eggs with special emphasis on Bidrin.
8572

Hazards of inseeticides and residue problems in rice cultivation.
8574

Mode of action, translocation, oxidation, and decomposition of inseeticides within the rice plants.
8581

Fungicidal compositions and methods using mesomeric phosphonium compounds. Patent 3,458,630.
8595

Indoxyl acetate spray reagent for fluorogenic deteetion of eholinesterase inhihitors in environmental samples.
8607

Shell's versatile products Aldrite 4, Dieldrite 1.5 Vaponite 2 formulated for all P.C.O. business.
8613

ORNITHOBILHARZIA
Redeseription of Ornithohilharzia canaliculata (Rud.) Odhner, with notes on elassification of the genus Ornithobilharzia and the subfamily Schistosomatinae (Trematoda).
8516

OROBANCHE
Occurrence of Orohanche cernua on Pluchea lanceolata, an obnoxious weed in Rajasthan, India.
8411

OROBANCHE CERNUA
Occurrence of Orohanche cernua on Pluchea lanceolata, an ohnoxious weed in Rajasthan, India.
8411

ORTHOPTERA
The structure of the female genital ducts and of the spermatheca in Gryllus campestris L.
8101

Lamphrush chromosomes and multiple nucleoli of Orthoptera.
8239

OSMOTIC PRESSURE
The contraetion of the roots of Arum italicum.
8583

OSTRINIA NUBILALIS
Effects of ecdysones on diapause in the European corn borer, Ostrinia nubilalis.
8083

The biology of the European eorn borer, Ostrinia nubilalis (Huhner), in Manitoba.
8127

Corn borer outlook.
8321

Residues of diazinon on field corn treated with granular, capsular, and ULV formulations for control of the European corn borer.
8346

OTIORHYNCHUS
Observations on Strophosomus melanogrammus (Forst.), Polydrosus marginatus Steph. and Otiorrhynchus armadillo (Rossi) (Coleoptera Cureulionidae), pests of Pseudotsuga douglasii Carr. in Tuscany.
8333

OVICIDES
Ovicidal efficiency of parathion and diazion for quarantine treatment of the Western tent caterpillar.
8376

OVIPOSITION
The response of a predator, Hypoaspis aculeifer (Canestrini) (Acarina:Laelapidae), to two species of prey.
8081

The role of short infra-red rays, on the egg laying workers of the ant Dolichoderus quadripunctatus L..
8200

OVIPOSITORS
Fire on fire ants .
8322

OVULATION
Effect of temperature on the progeny production and longevity of Lespesia archippivora in the laboratory.
8093

OXALIS ACETOSELLA
Oxalis acetosella, a new host of the coffee rootlesion nematode in south India.
8387

OXIDATION
Identification of Brucella abortus: Oxidative metabolism and phage typing.
8474

Mode of action, transloeation, oxidation, and decomposition of insecticides within the rice plants.
8581

OXIMES
Complexes of phosphorus pentafluoride oximes as herbicides. Patent 3,455,674.
8399

OXYDEMETONMETHYL
GLC determination of residues of disulfoton, oxydemetonmethyl, and their metabolites in tobacco plants.
8596

OXYGEN
Regulation of external respiration hy the booklung spiracles of the spiders, Araneus diadematus Clerck and A. marmoreus Clerck.
8176

OXYTETRACYCLINE
Control of European foulbrood disease of the honey bee.
8189

Control of baeterial spot of peach in New Jersey.
8288

OYSTERS
Note on improved extraction for chlorinated pesticide residues in oysters.
8551

PACHYDIPLOSIS ORYZAE
The rice gall midge Pachydiplosis oryzae (Wood-Mason).
8371

PALEARCTIC REGION
The Old World species of the tribe Typopsilopini (Diptera: Ephydridae).
8066

PANDEMIS HEPARANA
Biological investigations on Pandemis heparana (Den. and Schiff.) with special consideration given to the factors inducing diapause and influencing egg laying.
8155

PAPER
Effect of gamma radiation on the inseeticidal efficiency of malathion deposits on wheat and kraft paper.
8519

PARABIOSIS
The role of the neurohormones in the sexual differentiation of Lampyris noctiluca.
8165

PARAMYXOVIRUSES
RNA synthesis in chick embryo eells infected with defferent strains of NDV.
8449

Recomhination in Neweastle disease virus (NDV): the problem of complementing heterozygotes.
8453

Histone-mediated clumping of Newcastle disease virus (NDV).
8454

Autoradiographic study of the effect of Newcastle disease virus on the mitotic cycle of cells.
8456

PARAOXON
Comparison of assay methods for studying O,O-diethyl, O-p-nitrophenyl phosphate (paraoxon) detoxification in vitro.
8568

Degradation of parathion in the rat.
8570

PARAQUAT
Effeet of paraquat in the estahlishment of alfalfa.
8392

Bispyridinium compounds as herbicides. Patent 3,458,305.
8405

From weeds to pasture in one year.
8431

PARASITIC INSECTS
Biology of Bracon mellitor, a parasite of the boll weevil.
8070

The old house borer in Eastern States.
8076

Effeet of temperature on the progeny production and longevity of Lespesia archippivora in the laboratory.
8093

Mass rearing of the rice stem borer.
8119

Investigation into the morphology, taxonomy, and biology of the Podapolipidae (Acarina, Tarsonemini) (Under special consideration, the parallel evolution of the genera feutarsopolipus and Dorsipes with their hosts (Coleopt., Carabidae)).
8173

Fifty years of researeh on the pink bollworm in the United States.
8365

The possible control of rice stem borers hy the use on natural enemies.
8379

PARASITIC PLANTS
Occurrenee of Orobanche cernua on Pluchea laneeolata, an obnoxious weed in Rajasthan, India.
8411

PARASITISM
An epizootic disease of Tarichium (Entomophthoraceae) on the larvae of Ocnogyna parasita Hhn. (Lepidoptera, Arctiidae).
8215

The ineffectiveness of cycloheximide and phytoaetin as chemical controls of the blister rust disease.
8301

Neodiprion taedae linearis: A sawfly pest of loblolly and shortleaf pines.
8334

Pathogenicity of Hemicricnemoides species to coffee.
8386

Oxalis acetosella, a new host of the coffee rootlesion nematode in south India.
8387

Nematodes associated with soybeans in Alahama, Florida, and Georgia.
8389

Plant-parasitic nematodes in marginal Pinus ponderosa stands in central New Mexico.
8390

Survival of sporozoites of Leucocytozoon in birds for 11 days.
8462

Gastrointestinal nematodes of Venezuelan earnivora.
8492

Preventing and controlling internal parasites of hogs.
8510

Redescription of Ornithobilharzia canaliculata (Rud.) Odhner, with notes on classification of the genus Ornithobilharzia and the subfamily Schistosomatinae (Trematoda).
8516

PARATHION
The biology of the European corn borer, Ostrinia nubilalis (Hubner), in Manitoba.
8127

Effects of sub-lethal dosages of parathion and carbaryl on the biology of Dysdercus koenigii Fabricius.
8191

Chemical control of a species of the false chinchbug group on wheat and sugar beets.
8336

Developments in insecticide control of the rice stem borer in Japan.
8356

Rice leafhoppers.
8363

Ovicidal efficiency of parathion and diazion for quarantine treatment of the Western tent caterpillar.
8376

Releases of unsexed gamma-irradiated codling moths for population suppression.
8378

Determination of pesticides in water by microcoulometric gas chromatography after liquid-liquid extraction.
8530

Residuals of pesticides in cultivated mushrooms.
8556

Degradation of parathion in the rat.
8570

Hazards of insecticides and residue problems in rice cultivation.
8574

PARENCHYMA TISSUE
Tobacco mosaic virus in dividing mesophyll cells of Nicotiana.
8290

Fluorescent antibody staining of tobacco mosaic virus antigen in tobacco mesophyll protoplasts.
8307

The contraction of the roots of Arum italicum.
8583

PARLATORIA BLANCHARDII
Survey and distribution of common lady beetles (Col. Coccinellidae) on date palm trees in Israel.
8042

PARLATORIA PERGANDII
The comparative biologies of two hymenopterous parasites of the chaff scale, Parlatoria pergandii.
8123

The natural enemies of the chaff scale, Parlatoria pergandii Comstock, in Israel.
8344

PARTHENOGENESIS
Triploidy in natural populations of black flies Prosimulium macropyga Lundstr (Simuliidae, Diptera).
8223

PASTURE MANAGEMENT
Some ecological benefits of woody plant control with herbicides.
8395

From weeds to pasture in one year.
8431

Preventing and controlling internal parasites of hogs.
8510

PASTURES
Some ecological benefits of woody plant control with herbicides.
8396

From weeds to pasture in one year.
8431

PATENTS
Adult housefly control agents. Patent 3,454,638.
8111

Alkyl 2-methylpropenyl ketoxime carbamates. Patent 3,454,642.
8117

Methods of controlling bacteria, fungi, nematodes and weed pests with tetrahalohydroxyhenzamides. Patent 3,459,534.
8277

Hydroxamate carbamates as nematocides. patent 3,459,866.
8285

Control of vascular tree diseases with trichlorophenyl acetic acids. Patent 3,458,640.
8306

Phospho-acid esters as fungitoxic agents. Patent 3,459,857.
8313

Herbicidal composition and method employing thioalkylthiohenzothiazoles. Patent 3,455,676.
8393

Complexes of phosphorus pentafluoride oximes as herbicides. Patent 3,455,674.
8399

Bispyridinium compounds as herbicides. Patent 3,458,305.
8405

Aminophosphonate herbicides. Patent 3,455,675.
8415

Dihalophenyl-p-nitrophenyl ethers as herbicides. Patent 3,454,392.
8419

Methods of controlling weeds with derivatives of aminooxy lower alkanoic acids. Patent 3,457,063.
8426

Process for desiccating plants. Patent 3,454,390.
8434

N-(hydrocarhylthioalkyl)halophenoxyacylamides as herbicides. Patent 3,459,533.
8439

Nitrophenyl carbamic acid esters as molluscicides. Patent 3,458,639.
8442

Method of treating influenza viral infection. patent 3,459,861.
8445

Methods of treating coccidiosis with 4-sulfanilamido-2,6-dimethoxypyrimidine. Patent 3,458,631.
8448

Preparation of nitroimidazole carbamates. patent 3,459,764.
8463

Antibiotics 460 and methods for their production. Patent 3,454,696.
8485

Antihiotics 15 and methods for their production. Patent 3,348,626.
8486

Anthelmintic compositions and methods employing 2-(2'-oxazolin-2'-yl)-benzimidazoles. Patent 3,457,351.
8497

Stimulation of plant growth. Patent 3,454,391.
8592

Insecticidal-germicidal compositions of quaternary ammonium ortho phenyl phanate halide complexes. Patent 3,458,629.
8593

Fungicidal compositions and methods using mesomeric phosphonium compounds. Patent 3,458,630.
8595

Methods for stabilizing pesticidal compositions of 2-alkoxycarbonylaminobenzimidazolecarboxylic esters. Patent 3,454,700.
8600

Aryl alkoxythioureas. Patent 3,457,292.
8601

Nortricyclic-3-ureas and their herbicidal compositions and methods of use. Patent 3,454,393.
8606

Process for the manufacture of a pesticide from petroleum hydrocarbons. Patent 3,454,664.
8609

PEACHES
Sex attraction and mating of lesser peach tree borer moths.
8214

Control of bacterial spot of peach in New Jersey.
8288

PEANUTS
Stimulation of plant growth. Patent 3,454,391.
8592

Quantitative method for the estimation of aflatoxins in peanuts and peanut products.
8605

PEARS
Releases of unsexed gamma-irradiated codling moths for population suppression.
8378

Persistence of pesticides in orchards and orchard soils. in; Organic pesticides in the environment; symposium...American Chemical Society, Atlantic City, N.J., Sept. 13-is, 1965. robert J. gould, ed.
8532

PECTINOPHORA GOSSYPIELLA
Fifty years of research on the pink bollworm in the United States.
8365

PEMPHIGOSTOLA SYNEMONISTIS
Discovery of the female of Pemphigostola synemonistis Strand, 1909 (Lepidoptera Agaristidae).
8064

PENGUINS
DDT residues in Adelie penguins and a crabeater seal from Antarctica.
8552

PENICILLIUM
Notes on fungi responsible for the decay of hickory nuts.
8284

PENTATOMIDAE
Biological and ecological study of the hymenopterous parasites of the eggs of cereal bugs.
8182

PEPTIDES
The polypeptides of adenovirus. III. Synthesis in infected cells.
8487

PERENNIAL PLANTS
Occurrence of Orobanche cernua on Pluchea lanceolata, an obnoxious weed in Rajasthan, India.
8411

PERICARDITIS
Perforation of the esophagus in a cat.
8479

PERILAMPIDAE
Notes on some new or little known Chalcididae (Hym.).
8031

PERIPLANETA AMERICANA
On the phosphagen isolated from eggs of insects.
8108

Movement of calcium and magnesium across the midgut epithelium of the American cockroach.
8183

PERSISTENCE
Persistence of pesticides in orchards and orchard soils.
8531

PEST CONTROL
The Gold Crest Pest Control Program for the pest control industry.
8614

PEST CONTROL OPERATORS
Regulatory activities of the Connecticut State Board of Pesticide Control.
8529

Shell's versatile products Aldrite 4, Dieldrite 1.5 Vaponite 2 formulated for all P.C.O. business.
8613

PESTICIDE ANALYSIS
Techniques and preliminary data of the movement of DDT and Zectran through a forest soil.
8525

Effect of forage processing on dalapon residue.
8548

GLC determination of residues of disulfoton, oxydemetonmethyl, and their metabolites in tobacco plants.
8596

Thin layer densitometric determination of rotenone and deguelin.
8597

Note on the determination of some chlorophenoxy herbicides and their esters in water.
8598

Studies on the effect of sulfuric-fuming nitric acid treatment on the analytical characteristics of toxaphene.
8603

Modification of the carbon disulfide evolution method for dithiocarbamate residues.
8604

Indoxyl acetate spray reagent for fluorogenic detection of cholinesterase inhibitors in environmental samples.
8607

Comparison of four extraction and cleanup procedures for chlorinated pesticide residues in eggs.
8610

PESTICIDE APPLICATION
Plant diseases and their chemical control.
8291

Control of vascular tree diseases with trichlorophenyl acetic acids. Patent 3,458,640.
8306

Multiple applications of 1,2-dibromo-3-chloropropane for control of nematodes in established rose plantings.
8384

Some ecological benefits of woody plant control with herbicides.
8396

Control of annual weeds in spring-seeded alfalfa with preplant, preemergence, and postemergence herbicides.
8413

Regulatory activities of the Connecticut State Board of Pesticide Control.
8529

Residuals of pesticides in cultivated mushrooms.
8556

Broadcast spraying.
8612

PESTICIDE MIXTURES
Control of dandelion and spotted-spurge in lawn turf with herbicides.
8423

The response of brush to picloram, dicamba, 2,3,6-TBA and phenoxy herbicides.
8435

Weed control in sugar beets with preemergence herbicides.
8436

Effect of several herbicides on flower production, growth and weed control in marigolds.
8590

PESTICIDE RESIDUES
Pesticide usage in relation to beekeeping.
8075

Determination of pesticides in water by microcoulometric gas chromatography after liquid-liquid extraction.
8530

Pesticide residues in food.
8535

Tolerances of three species of anuran amphibians to five chlorinated hydrocarbon insecticides.
8541

Pesticide residues in a marine population of double-crested cormorants.
8545

Improved extraction of chlorinated hydroearbon pesticides from animal tissues.
8547

Residues of DDT and it's derivatives in the fat tissues of some market animals.
8554

Residuals of pesticides in cultivated mushrooms.
8556

DDT reduces photosynthesis by marine phytoplankton.
8557

Structure-activity and metabolism studies on organophosphate teratogens and their alleviating agents in developing hen eggs with special emphasis on Bidrin.
8572

Modification of the carbon disulfide evolution method for dithiocarbamate residues.
8604

Indoxyl acetate spray reagent for fluorogenic detection of cholinesterase inhibitors in environmental samples.
8607

The control of technology. solandt, o m.
8615

PESTICIDE SAFETY
The control of technology. solandt, o m.
8615

PESTICIDES
Pesticide usage in relation to beekeeping.
8075

Methods of controlling bacteria, fungi, nematodes and weed pests with tetrahalohydroxybenzamides. Patent 3,459,534.
8277

Ethylene dibromide: a potent pesticide with high motagenic activity.
8302

Improved extraction of chlorinated hydrocarbon pesticides from animal tissues.
8547

Methods for stabilizing pesticidal compositions of 2-alkoxycarbonylaminobenzimidazolecarboxylic esters. Patent 3,454,700.
8600

Process for the manufacture of a pesticide from petroleum hydrocarbons. Patent 3,454,664.
8609

The Gold Crest Pest Control Program for the pest control industry.
8614

PETROLEUM
Fish losses after forest sprayings with insecticides in New Brunswick, 1952-62, as shown by caged specimens and other observations.
8567

Process for the manufacture of a pesticide from petroleum hydrocarbons. Patent 3,454,664.
8609

PHAENICIA
Studies on the behaviour of Lucilia illustris Meigen as a parasite of vertebrates under experimental conditions.
8103

PHAENICIA CUPRINA
Changes in nitrogenous compounds during the metamorphosis of the blowfly, Lucilia cuprina.
8086

PHAENICIA SERICATA
Dieldrin resistance in Lucilia sericata (Meig) from Co. Dublin, Eire.
8188

PHANEROTOMA
A new Phanerotoma species from Syria (Hymenoptera, Braconidae).
8034

PHEASANTS
Repelling pheasants from sprouting corn with a carbamate insecticide.
8443

Seed dressings and game birds.
8444

Dieldrin effects in two generations of penned hen pheasants.
8537

PHENOXY ACID COMPOUNDS
Grain aphids in New brunswick. IV. Effects of malathion and 2,4-D amine on aphid populations and on yields of oats and barley.
8320

Control and elimination of noxious weeds.
8404

Chemical weed control in crops.
8427

Note on the determination of some chlorophenoxy herbicides and their esters in water.
8598

PHENYLALANINE
Phenylalanine induced enhancement of drosopterin formation in the eye color mutant or66k (orange) of Drosophila melanogaster.
8187

PHENYLMERCURIC ACETATE
Piricularia oryzae, a problem common to rice growing countries.
8282

PHEROMONES
A continously recording flight mill for investigating the effect of volatile substances on the flight of feathered insects.
8087

Sex pheromone specificity: Taxonomic and evolutionary aspects in Lepidoptera.
8178

Sex pheromone specificity: Taxonomic and evolutionary aspects in Lepidoptera.
8179

PHILOMIDES HOGGARIENSIS
Notes on some new or little known Chalcididae (Hym.).
8031

PHLEUM
A three year summary of weed control for establishment of legume seedings.
8397

PHORMIA
A noninclusion virus of blow-fly larvae.
8105

PHOSPHAGEN
On the phosphagen isolated from eggs of insects.
8108

PHOSPHAMIDON
Fish losses after forest sprayings with insecticides in New Brunswick, 1952-62, as shown by caged specimens and other observations.
8567

PHOSPHATES
Studies on the 5'-terminus of turnip yellow mosaic virus RNA.
8316

PHOSPHOLIPASE
On the positional specificity of phospholipase A of certain species of mosquitoes.
8172

PHOSPHOLIPIDS
The incorporation of amino-alcohols into the phospholipids of the adult housefly, Musca domestica.
8090

PHOSPHOROTHIOIC ACID ESTERS
Determination of pesticides in water by microcoulometric gas chromatography after liquid-liquid extraction.
8530

PHOSPHORUS ISOTOPES
P32-labeling of common malaria mosquitoes: assimilation by larvae and retention and transfer during mating.
8193

PHOTOMICROGRAPHY
The embryology of Lytta viridana Le Conte (Coleoptera: Meloidae). IV. Chromatin elimination.
8261

PHOTOPERIODISM
Influence of light on diapause in the boll weevil. Ii. Dependence of diapause response on narrow bands of visible radiation and a broad band of infrared radiation used to extend the photoperiod.
8128

Photoperiod and temperature as factors controlling the diapause of the sunflower moth, Homoeosoma electellum.
8201

Experimental research concerning the circumstances and modalities of the return of inflorescence towards the vegetative stage in Salvia glutinosa L.
8577

PHOTOSYNTHESIS
DDT reduces photosynthesis by marine phytoplankton.
8557

PHRAGMITES
Air swallowing- an effective protection against drowning in larvae of Epistrophe halteata (Syrphidae Dipt.).
8185

PHYCITIDAE
How to distinguish attacks by the black turpentine beetle and Dioryctria amatella on southern pines.
8339

PHYSIOLOGY
The fine-structure of the epimastigote forms of Trypanosoma lewisi in the rectum of the flea, Nosopsyllus fasciatus.
8161

Site difference for solid tumor growth.
8455

Hemoglobins of parasitic nematodes. II. Electrophoretic analysis of the multiple hemoglobins of adults and developmental stages of the rabbit stomach worm, Obeliscoides cuniculi.
8495

Effect of heterologous antibody on Haemonchus contortus development in vitro.
8500

Chitinase activity in developmental stages of Ascaris suum and its inhibition by antibody.
8504

The development of Haemonchus contortus in vitro. I. The effect of pH and pCO2 on the rate of development to the fourth-stage larva.
8505

Parasites as biological models.
8507

The excretory system of the kidney worm Stephanurus dentatus (Nematoda).
8512

Structure-activity and metabolism studies on organophosphate teratogens and their alleviating agents in developing hen eggs with special emphasis on Bidrin.
8572

PHYTOACTIN
The ineffectiveness of cycloheximide and phytoactin as chemical controls of the blister rust disease.
8301

PHYTOPHAGOUS INSECTS
Chemosensory bases of host plant selection.
8186

PHYTOPHTHORA FRAGARIAE
Development of controlled conditions for the study of red stele disease on strawberries.
8216

PHYTOPHTHORA INFESTANS
Save your potato crop from fungal and bacterial diseases.
8286

PHYTOPHTHORA MEADII
Use of cacao pod for recovering Phytophthora species pathogenic to Hevea brasiliensis.
8287

PHYTOPHTHORA PALMIVORA
Use of cacao pod for recovering Phytophthora species pathogenic to Hevea brasiliensis.
8287

PHYTOSEIIDAE
Studies on the mating behaviour of the predaceous mite Amblyseius gossipi (Acarina, Phytosciidae).
8112

Biological studies on Amblyseius aleyrodis a predator of the cotton whitefly (Acarina, Phytoseiidae).
8338

PHYTOTOXICITY
Systemic insecticides in trees.
8585

PICLORAM
Some ecological benefits of woody plant control with herbicides.
8396

The response of brush to picloram, dicamba, 2,3,6-TBA and phenoxy herbicides.
8435

Preliminary studies of the effects of cacodylic acid on the activity of 2,4-D and picloram in bean plants. (abstract).
8438

PIERIS BRASSICAE
Relationship between the proteins of the haemolymph and fat body during development of Pieris brassicae.
8097

PIERIS NAPI PSEUDORAPAE
The type material of Pieris napi pseudorapae Verity.
8023

PIGMENTS
Cuticular pigments of tobacco hornworm (Manduca sexta) larvae: Effects of diet and genetic differences.
8100

Phenoxazinone synthesis in Drosophila melanogaster.
8170

Phenylalanine induced enhancement of drosopterin formation in the eye color mutant or66k (orange) of Drosophila melanogaster.
8187

PIGWEED
A study of the activity of diphenamid and three analogs. (abstract).
8582

PINUS
How to distinguish attacks by the black turpentine beetle and Dioryctria amatella on southern pines.
8339

Plant-parasitic nematodes in marginal Pinus ponderosa stands in central New Mexico.
8390

PINUS ECHINATA
Neodiprion taedae linearis: A sawfly pest of loblolly and shortleaf pines.
8334

PINUS ELLIOTTII
How to distinguish attacks by the black turpentine beetle and Dioryctria amatella on southern pines.
8339

PINUS MONTICOLA
The ineffectiveness of cycloheximide and phytoactin as chemical controls of the blister rust disease.
8301

PINUS PONDEROSA
Plant-parasitic nematodes in marginal Pinus ponderosa stands in central New Mexico.
8390

PIPERONYL BUTOXIDE
Bi-modal effect of piperonyl butoxide on the o- and p-hydroxylations of biphenyl by mouse liver microsomes.
8566

PIRICULARIA ORYZAE
Piricularia oryzae, a problem common to rice growing countries.
8282

PITCH
How to distinguish attacks by the black turpentine beetle and Dioryctria amatella on southern pines.
8339

PLANKTON
DDT reduces photosynthesis by marine phytoplankton.
8557

PLANT ABNORMALITIES
Effect of crinkle-scurf of citrus on tree growth, productivity, and fruit quality.
8312

PLANT BIOCHEMISTRY
Experimental research concerning the circumstances and modalities of the return of inflorescence towards the vegetative stage in Salvia glutinosa L.
8577

The contraction of the roots of Arum italicum.
8583

Plant treatment in relation to the rhizosphere effect. III. Foliar application of certain trace elements and metallic chelates in relation to the rhizosphere microflora of rice (Oryza sativa L.).
8588

PLANT BREEDING
Varietal resistance to rice stem borers in India.
8355

PLANT BUDDING
Effect of several herbicides on flower production, growth and weed control in marigolds.
8590

PLANT CYTOLOGY
The elongation of stamen filaments in Graminaceae.
8589

PLANT DISEASE CONTROL
Save your potato crop from fungal and bacterial diseases.
8286

Contribution to the etiologic study and control of beet germ rotting.
8311

PLANT DISEASE RESISTANCE
Development of controlled conditions for the study of red stele disease on strawberries.
8216

Resistance of strawberry varieties to leaf scorch disease.
8314

PLANT DISEASE TRANSMISSION
Evidence of transovarial passage of the sowthistle yellow vein virus in the aphid Hyperomyzus lactucae.
8317

Contribution to the migratory behavior of Xiphinema diversicaudum (Mikoletzky) Thorne, X. coxi Tarjan and Longidorus macrosoma Hooper, as well as the diffusion of rhubarb mosaic virus in the field.
8382

PLANT DISEASES
Piricularia oryzae, a problem common to rice growing countries.
8282

Save your potato crop from fungal and bacterial diseases.
8286

New species of Ceratocystis associated with bark injuries on deciduous fruit trees.
8289

Plant diseases and their chemical control.
8291

Neck rot in onions.
8296

PLANT ECOLOGY
Intrafloral ecology.
8080

PLANT EMBRYOS
A study of the development of the giberellin content of embryos of Evonymus europaeus L., in the course of the stratification of seeds.
8584

PLANT EXTRACTS
Color and natural products attracting the adult sugarbeet root maggot in Southcentral Idaho.
8197

PLANT GALLS
A hitherto unrecorded midge gall of Myrsine australis (A. Rich.) Allan.
8323

PLANT GENETICS
Effect of crinkle-scurf of citrus on tree growth, productivity, and fruit quality.
8312

PLANT GRAFTING
Expression of sexual characteristics in annual mercurials.
8580

PLANT HORMONES
Effect of CP31393 on auxin-induced growth.
8579

Expression of sexual characteristics in annual mercurials.
8580

The contraction of the roots of Arum italicum.
8583

PLANT HOSTS
The systematic position of Brahmaea europaea Hartig (Lepidoptera Brahmacidae).
8053

Contributions to the knowledge of the Italian nematode fauna. I. Genus Meloidgyne Goeldi, 1887.
8388

PLANT INJURIES
Powdery mildew of hydrangeas.
8303

A hitherto unrecorded midge gall of Myrsine australis (A. Rich.) Allan.
8323

Neodiprion taedae linearis: A sawfly pest of loblolly and shortleaf pines.
8334

A three year summary of weed control for establishment of legume seedings.
8397

Herbicide evaluation in soybeans at Georgetown, Delaware, 1967.
8401

Control of yellow rocket (Barbarea vulgaris) and other broadleaf weeds associated with established alfalfa.
8402

Contribution to risk of damage in the practical use herbicides.
8418

Methods of weed control in sugar beets.
8432

PLANT INSECT RESISTANCE
Fifty years of research on the pink bollworm in the United States.
8365

PLANT METABOLISM
Systemic insecticides in trees.
8585

Influence of 2,4-D and streptomycin on the nitrogen metabolism of buckwheat seedlings and its relation to the anthocyanin biosynthesis.
8587

PLANT MORPHOLOGY
A hitherto unrecorded midge gall of Myrsine australis (A. Rich.) Allan.
8323

PLANT NEMATODE RESISTANCE
First observations on the resistance of a hybrid potato variety to some Italian populations of Heterodera rostochiensis Woll.
8381

Host-parasite relationships of various plants and the hop cyst nematode, Heterodera humuli.
8391

PLANT NEMATODES
A black mildew, of the genus Diporotheca, found on roots of Nicotiana tabacum in Connecticut.
8278

Assessment of rice loss caused by the rice stem borer.
8353

First observations on the resistance of a hybrid potato variety to some Italian populations of Heterodera rostochiensis Woll.
8381

Contribution to the migratory behavior of Xiphinema diversicaudum (Mikoletzky) Thorne, X. coxi Tarjan and Longidorus macrosoma Hooper, as well as the diffusion of rhubarb mosaic virus in the field.
8382

Effect of organic and inorganic nitrogen on nematode populations on turf.
8383

Multiple applications of 1,2-dibromo-3-chloropropane for control of nematodes in established rose plantings.
8384

New data on the distribution and biology of the couch grass nematode (Paranguina agropyri Kirjanova, 1955 (Nematoda: Tylenchida).
8385

Pathogenicity of Hemicriconemoides species to coffee.
8386

Oxalis acetosella, a new host of the coffee root-lesion nematode in south India.
8387

Contributions to the knowledge of the Italian nematode fauna. I. Genus Meloidgyne Goeldi, 1887.
8388

Nematodes associated with soybeans in Alabama, Florida, and Georgia.
8389

Plant-parasitic nematodes in marginal Pinus ponderosa stands in central New Mexico.
8390

Host-parasite relationships of various plants and the hop cyst nematode, Heterodera humuli.
8391

Serological and morphological studies on the inter- and intraspecific differences of the plant-parasitic nematodes Heterodera and Ditylenchus.
8514

PLANT PEST CONTROL
Releases of unsexed gamma-irradiated codling moths for population suppression.
8378

Oxalis acetosella, a new host of the coffee root-lesion nematode in south India.
8387

PLANT PEST RESISTANCE
Lycopersicon an Solanum spp. resistant to the carmine and the two-spotted spider mite.
8343

Recognition of a greenbug biotype injurious to sorghum.
8349

Varietal resistance to rice stem borers in India.
8355

Varietal resistance to rice stem borers in Japan.
8362

Varietal resistance to rice stem borers at IRRI.
8367

PLANT PHYSIOLOGY
Plant diseases and their chemical control.
8291

Bacterial top and stalk rot disease of corn in Wisconsin.
8297

Effect of crinkle-scurf of citrus on tree growth, productivity, and fruit quality.
8312

Pathogenicity of Hemicriconemoides species to coffee.
8386

Experimental research concerning the circumstances and modalities of the return of inflorescence towards the vegetative stage in Salvia glutinosa L.
8577

Expression of sexual characteristics in annual mercurials.
8580

The contraction of the roots of Arum italicum.
8583

A study of the development of the giberellin content of embryos of Evonymus europaeus L., in the course of the stratification of seeds.
8584

Systemic insecticides in trees.
8585

The elongation of stamen filaments in Graminaceae.
8589

Effect of several herbicides on flower production, growth and weed control in marigolds.
8590

PLANT PROPAGATION
Varietal resistance to rice stem borers in India.
8355

PLANT PROTECTION
Influence of soil sterilization measures on the Mycorrhiza of forest plants. (I.).
8279

PLANT QUARANTINE
Bacterial spot of tomato in United Arab Republic.
8304

Ovicidal efficiency of parathion and diazion for quarantine treatment of the Western tent caterpillar.
8376

PLANT REGULATORS
Effect of CP31393 on auxin-induced growth.
8579

Expression of sexual characteristics in annual mercurials.
8580

Stimulation of plant growth. Patent 3,454,391.
8592

PLANT REPRODUCTION
Expression of sexual characteristics in annual mercurials.
8580

PLANT RESIDUES
Estimating temperatures and heat flux in insect environments in stubbed cotton fields in the winter.
8121

PLANT TAXONOMY
Intrafloral ecology.
8080

Plant diseases and their chemical control.
8291

PLANT TRANSLOCATION
Preliminary studies of the effects of cacodylic acid on the activity of 2,4-D and pieloram in bean plants. (abstract).
8438

Mode of action, translocation, oxidation, and decomposition of insecticides within the rice plants.
8581

Translocation patterns of simazine in Potamogeton crispus l.
8591

PLANTATIONS
Investigations on the biology and control of Melolontha melolontha in hazelnut plantations.
8377

PLANTS
Chemosensory bases of host plant selection.
8186

Influence of soil sterilization measures on the Mycorrhiza of forest plants. (I.).
8279

On the rating of plants as sources of polyphagous species of plant lice (Homoptera: Aphididae).
8351

PLASMOLYSIS
The contraction of the roots of Arum italicum.
8583

PLUCHEA LANCEOLATA
Occurrence of Orobanche cernua on Pluchea lanceolata, an obnoxious weed in Rajasthan, India.
8411

PLUTELLA MACULIPENNIS
Cabbage looper control in Florida - a cooperative program.
8345

PNEUMONIA
Perforation of the esophagus in a cat.
8479

POA
Performance of preemergence herbicides in 1967 on Merion Kentucky bluegrass turf.
8407

POISONING
Pesticide usage in relation to beekeeping.
8075

Pollen gathering of honey bees reduced by pesticide sprays.
8205

The effects of an acute DDT exposure on the spontaneous electrical activity of goldfish cerebellum.
8558

Hazards of insecticides and residue problems in rice cultivation.
8574

POLISTES
Controlling wasps.
8071

POLLINATION
Intrafloral ecology.
8080

Effects of increased pollinator levels on production of the highbush blueberry, Vaccinium corymbosum.
8089

Pollen gathering of honey bees reduced by pesticide sprays.
8205

POLYDRUSUS
Observations on Strophosomus melanogrammus (Forst.), Polydrosus marginatus Steph. and Otiorrhynchus armadillo (Rossi) (Coleoptera Curculionidae), pests of Pseudotsuga douglasii Carr. in Tuscany.
8333

POLYHEDROSES
A polyhedrosis in Culex salinarius of Louisiana.
8098

Purification of a cytoplasmic-polyhedrosis virus of the silkworm, Bombyx mori.
8159

Ineffectiveness of a microsporidian and a granulosis virus in activating a cytoplasmic polyhedrosis virus in the alfalfa caterpillar, Colias eurytheme.
8198

POLYMORPHISM
Phenotypic polymorphism in Aphidius smithi Sharma Subba Rao (Hymenoptera, Aphidiidae).
8247

Effects of controlled heterozygosis on viability in Drosophila melanogaster.
8252

POLYOMA VIRUS
Effect of 5-fluorouracil and 5-bromo-2'-deoxyuridine on the induction of thymidine kinase in polyoma virusinfected mouse embryo cells.
8488

POLYPLOIDY
Triploidy in natural populations of black flies Prosimulium macropyga Lundstr (Simuliidae, Diptera).
8223

POLYPORACEAE
Pathological changes in the trunk of Prunus armeniaca L. and their relationship to the premature death of apricots. I. Investigations in the area of wood structure.
8308

POLYPORUS BETULINUS
Association among species of infrequent occurrence: The insect and spider fauna of Polyporus betulinus (Bulliard) Fries.
8171

POPULATION
Assessment of the field population of the rice stem borer moth by light trap.
8040

Survey and distribution of common lady beetles (Col. Coccinellidae) on date palm trees in Israel.
8042

Statistical methods in rice stem borer research.
8063

Insect parasite complex berseem armyworm Spodoptera exigua (Hubn.) (Lepidoptera, Noctuidae).
8082

Influence of larval population density on the size of adults, duration of development, and diapause frequency in Pteromalus puparum L. (Hym., Chalcididae).
8088

Effects of introduced irradiated male grain mites on population development.
8091

Age structure of insect populations of medical importance.
8107

The comparative biologies of two hymenopterous parasites of the chaff scale, Parlatoria pergandii.
8123

Recent fundamental work on tsetse flies.
8124

Impact of pathogens, parasites, and predators on aphids.
8126

Daily and seasonal density of four entomophagous predators on cotton in upper Egypt.
8130

Bionomics of Siricidae.
8162

Association among species of infrequent occurrence: The insect and spider fauna of Polyporus betulinus (Bulliard) Fries.
8171

Radiation induced increase in fitness in Drosophila simulans.
8219

Triploidy in natural populations of black flies Prosimulium macropyga Lundstr (Simuliidae, Diptera).
8223

Genetic and environmental variability for bristles in Drosophila.
8227

Heterozygosity in inbred lines of Tribolium castaneum.
8230

Reciprocal fertility among five populations of Anopheles albimanus.
8236

The semispecies and the transitional populations of Drosophila paulistorum.
8242

Effects of controlled heterozygosis on viability in Drosophila melanogaster.
8252

Natural selection on the degree of dominance of viability polygenes in Drosophila melanogaster.
8254

The population genetics of insect introduction.
8260

Developmental time of geographical populations of Tribolium castaneum.
8266

Note on the efficiency of Prospaltella perniciosi Tow. in France.
8326

A nucleopolyhedrosis virus in populations of the Douglas-fir tussock moth, Hemerocampa pseudotsugata, in California.
8335

The natural enemies of the chaff scale, Parlatoria pergandii Comstock, in Israel.
8344

Evaluation of forest insect infestations.
8357

Information gathered in the course of nine years of work with Prospaltella perniciosi Tow., parasite of the San Jose scale (Quadraspidiotus perniciosus Comst.).
8360

Ecology of common insect pests of rice.
8368

Population studies on the infective stage of some nematode parasites of sheep. III. The distribution of strongyloid egg output in flocks of sheep.
8493

Population studies on the infective stage of some nematode parasites of sheep. II. The distribution of faecal deposits on fields grazed by sheep.
8494

PORTHETRIA DISPAR
New ultracytological findings in insect nuclear polyhedroses.
8152

The application of a polyhedral nuclear virus for the control of Lymantria dispar L. larvae.
8358

POTAMOGETON CRISPUS
Translocation patterns of simazine in Potamogeton crispus L.
8591

POTATOES
Save your potato crop from fungal and bacterial diseases.
8286

First observations on the resistance of a hybrid potato variety to some Italian populations of Heterodera rostochiensis Woll.
8381

The control of wild radish in Katahdin potatoes (1967).
8398

Pre-harvest use of chemicals in potato production.
8403

Time of application of EPTC for nutgrass control in potatoes.
8421

Potato vine killing in Maine - 1966.
8425

Weed control in white potatoes with preemergence herbicides.
8437

Weed and crop responses to herbicides applied with various cultural practices and at different stages of potato growth.
8441

Analysis of potato for residue of C-3126 and of squash for residue of prometryne.
8544

POULTRY
RNA synthesis in chick embryo cells infected with defferent strains of NDV.
8449

Automated determination of zoalene in feeds.
8452

The development of lesions in vitamin A-deficient adult fowl.
8458

Attempt to detect fowl leukemia virus in living virus vaccines prepared in eggs.
8465

Prevalence of salmonellae in Virginia poultry flocks and in feed.
8468

Enhancement and inhibition of avian sarcoma viruses by polycations and polyanions.
8484

Malathion-induced teratisms in the developing chick.
8564

POWDERY MILDEW
Powdery mildew of hydrangeas.
8303

PRATYLENCHUS COFFEAE
Oxalis acetosella, a new host of the coffee root-lesion nematode in south India.
8387

PREDACEOUS INSECTS
A new species of Tetrastichus Haliday, 1844 (Hymenoptera: Eulophidae) parasitic nymphs of Payrocephala calodendri Moran (Homoptera: Psyllidae).
8026

Survey and distribution of common lady beetles (Col. Coccinellidae) on date palm trees in Israel.
8042

Paraholaspis ovivora n. sp. (Hym., Torymidae), a parasite of the eggs of the buprestid Sterapis speciosa Klug..
8055

A new species of Pseudoscymnus Chapin (Col., Coccinellidae) predaceous on scale insects in West Pakistan.
8072

The old house borer in Eastern States.
8076

The response of a predator, Hypoaspis aculeifer (Canestrini) (Acarina:Laelapidae), to two species of prey.
8081

Insect parasite complex berseem armyworm Spodoptera exigua (Hubn.) (Lepidoptera, Noctuidae).
8082

The comparative biologies of two hymenopterous parasites of the chaff scale, Parlatoria pergandii.
8123

Impact of pathogens, parasites, and predators on aphids.
8126

Daily and seasonal density of four entomophagous predators on cotton in upper Egypt.
8130

Bionomics and ecology of predaceous Coccinellidae.
8135

Biological and ecological study of the hymenopterous parasites of the eggs of cereal bugs.
8182

Air swallowing- an effective protection against drowning in larvae of Epistrophe halteata (Syrphidae Dipt.).
8185

Influence of food on the fecundity of Chrysopa carnea Stephens (Neuroptera, Chrysopidae).
8196

Predators and parasites of Aphytis (Hym., Aphelinidae).
8206

Mechanical and physiological defense reactions of an aphid species (Aphididae) against ichneumonid wasps (Hymenoptera).
8213

Biological studies on Amblyseius aleyrodis a predator of the cotton whitefly (Acarina, Phytoseiidae).
8338

The natural enemies of the chaff scale, Parlatoria pergandii Comstock, in Israel.
8344

The possible role of biotic factors in an integrated program for rice stem borer control.
8364

Fifty years of research on the pink bollworm in the United States.
8365

Impact of parasites, predators, and diseases on rice pests.
8380

PREDACEOUS MITES
Honey bee pathology.
8079

PRODUCTION ECONOMICS
Shell's versatile products Aldrite 4, Dieldrite 1.5 Vaponite 2 formulated for all P.C.O. business.
8613

PRODUCTIVITY
Effect of crinkle-scurf of citrus on tree growth, productivity, and fruit quality.
8312

PROMETRYNE
Analysis of potato for residue of C-3126 and of squash for residue of prometryne.
8544

PROSIMULIUM
Triploidy in natural populations of black flies Prosimulium macropyga Lundstr (Simuliidae, Diptera).
8223

PROSPALTELLA PERNICIOSI
Experiences in mass rearing of Prospaltella perniciosi Tow. in the transformed Stuttgart insectarium.
8167

Note on the efficiency of Prospaltella perniciosi Tow. in France.
8326

Activity of the working groups: Working group on San Jose Scale .
8359

Information gathered in the course of nine years of work with Prospaltella perniciosi Tow., parasite of the San Jose scale (Quadraspidiotus perniciosus Comst.).
8360

Some aspects of biological control of the San Jose scale (Quadraspidiotus perniciosus Comst.) with the help of the aphelinid Prospaltella perniciosi Tow.
8361

PROTEIN SYNTHESIS
Semliki Forest virus temperature-sensitive mutants. isolation and characterization.
8318

The polypeptides of adenovirus. III. Synthesis in infected cells.
8487

PROTEINS
Biochemistry and taxonomy.
8060

Aggregation of Drosophila embryonic cells and effects of proteolytic enzymes.
8077

Relationship between the proteins of the haemolymph and fat body during development of Pieris brassicae.
8097

Developmental changes in the protein constitution of a mosquito (Armigeres subalbatus) as revealed by disc electrophoresis.
8106

The protein nature of the substance inducing female monogamy in Aedes aegypti. despommier, d d.
8118

Isolation and characterization of the ribosomal proteins of Drosophila melanogaster.
8147

In vitro synthesis of injury protein and a companion protein in organs of prepupa of Galleria mellonella L..
8156

Degradation of turnip yellow mosaic virus by freezing and thawing in vitro: a new method for studies on the internal organization of the viral components and for isolating native RNA.
8299

On the common protein determinants of Enterobacteriaceae.
8594

On the mechanization of radiosensitization by 5-bromouracil. Studies on 60Co-gamma irradiated phage phi X-174 and its single-stranded infectious DNA.
8599

PROTOZOA
Honey bee pathology.
8079

Survival of sporozoites of Leucocytozoon in birds for 11 days.
8462

Preventing and controlling internal parasites of hogs.
8510

PSELAPHIDAE
A contribution to the knowledge of the Scaphidiidae and Pselaphidae of Korea (Coleoptera).
8046

PSEUDOCOCCIDAE
X-ray induced reversal of heterochromatization in male mealy bugs.
8256

PSEUDOMONAS
A boll rot of cotton caused by Erwinia aroideae.
8298

PSEUDOMONAS AERUGINOSA
Immune responses of ligatured Galleria mellonella larvae.
8133

PSEUDOMONAS SOLANACEARUM
Save your potato crop from fungal and bacterial diseases.
8286

PSEUDOTSUGA TAXIFOLIA
Observations on Strophosomus melanogrammus (Forst.), Polydrosus marginatus Steph. and Otiorrhynchus armadillo (Rossi) (Coleoptera Curculionidae), pests of Pseudotsuga douglasii Carr. in Tuscany.
8333

PSOROSIS
Effect of crinkle-scurf of citrus on tree growth, productivity, and fruit quality.
8312

PSYCHIDAE
Epichnopteryx pusilella Rbl. belongs to the genus Reisseronia Sied. (Lepidoptera, Psychidae).
8054

PSYLLIDAE
A new species of Tetrastichus Haliday, 1844 (Hymenoptera: Eulophidae) parasitic nymphs of Payrocephala calodendri Moran (Homoptera: Psyllidae).
8026

New and little known species of the family Trioza Forst. (Homoptera, Psyllidae) from Korea.
8150

PTERIDINE
Chromatographic comparison of pteridine levels in four white locus alleles of Drosophila melanogaster.
8218

PTEROMALIDAE
Influence of larval population density on the size of adults, duration of development, and diapause frequency in Pteromalus puparum L. (Hym., Chalcididae).
8088

PUPAE
Three new species of Aleyrodidae from the Sudan (Hemiptera-Homoptera).
8035

Research with ionizing irradiation on the sterilization and radiosensitivity of Chrysomela decemlineata Say.
8096

Haemocyte activity in relation to epidermal cell growth, cuticle secretion, and cell death in a metamorphosing cyclorrhaphan pupa.
8212

PYEMOTIDAE
Predators and parasites of Aphytis (Hym., Aphelinidae).
8206

PYRALIDAE
Taxonomy of the rice stem borers.
8041

Two new Carambinae for Austria Metacrambus carectellus Zeller in lower Austria, and Chrysocrambus linetellus Fabricius in Karnten.
8056

Control of paddy stem borers by cultural practices.
8319

Techniques for assessing crop losses caused by rice stem borers in tropical areas.
8354

Varietal resistance to rice stem borers in India.
8355

Developments in insecticide control of the rice stem borer in Japan.
8356

The possihle role of biotic factors in an integrated program for rice stem borer control.
8364

Varietal resistance to rice stem borers at IRRI.
8367

Ecology of common insect pests of rice.
8368

Recent developments in and future prospects for the chemical control of the rice stem borer in India.
8370

The possihle control of rice stem borers by the use on natural enemies.
8379

PYRAUSTIDAE
Corn borer outlook.
8321

PYRAZON
Weed control in sugar heets with preemergence herhicides.
8436

PYRETHRUM
The length of larval stage in Pyrethroid-resistant and suseeptible strains of the house fly, Musca domestica L.
8131

On the effect of synthetic synergists upon the knockdown speed of pyrethroids against larvae of the common house mosquito, Culex pipiens pallens Coquillett.
8158

Insecticide-cytoplasmic interactions in insects and vertebrates.
8203

Mosquito control in and around homes and farmsteads.
8274

Mode of action of insecticide synergists.
8569

PYRGOMORPHIDAE
Some new and little-known species of Pyrgomorphidae (Orthoptera: Acridoidea) from the Pacific and Far East.
8044

PYRIDINE NUCLEOTIDES
Structure-activity and metabolism studies on organophosphate teratogens and their alleviating agents in developing hen eggs with special emphasis on Bidrin.
8572

PYRIDINIUM COMPOUNDS
Bispyridinium compounds as herbicides. Patent 3,458,305.
8405

PYRIMIDINES
Effect of 5-fluorouacil and 5-bromo-2'-deoxyuridine on the induction of thymidine kinase in polyoma virusinfected mouse embryo cells.
8488

On the mechanization of radiosensitization by 5-bromouracil. Studies on 60Co-gamma irradiated phage phi X-174 and its single-stranded infectious DNA.
8599

PYRRHOCORIDAE
Effects of sub-lethal dosages of parathion and carbaryl on the biology of Dysdercus koenigii Fabricius.
8191

PYTHIUM
Contribution to the etiologic study and control of beet germ rotting.
8311

QUALITY CONTROL
Effect of crinkle-scurf of citrus on tree growth, productivity, and fruit quality.
8312

QUANTITATIVE ANALYSIS
Quantitative determination of DNA content during formation of one of the puffs and one of the Balbiani rings in Chironomus dorsalis.
8264

QUATERNARY AMMONIUM COMPOUNDS
Insecticidal-germicidal compositions of quarternary ammonium ortho phenyl phanate halide complexes. Patent 3,458,629.
8593

QUERCUS
The application of a polyhedral nuclear virus for the control of Lymantria dispar L. larvae.
8358

RABBITS
Demonstration with indirect immunofluorescence of a cellular epsilon-antigen of the mouse.
8459

Contribution to the study of the antigenic structure of some representatives of the Aspergillus family using specific precipitation in agar.
8475

Leukocyte system of rabbits receiving repeated injections of staphylococcal leukocidin.
8482

Docs cottontail sex or age affect incidence of Taenia pisiformis cysticerci .
8511

RADIATION
Research with ionizing irradiation on the sterilization and radioscnsitivity of Chrysomela dccemlineata Say.
8096

Radiation induced increase in fitness in Drosophila simulans.
8219

Preliminary laboratory study of the effect of X rays on the fertility of Carpocapsa pomonella (Laspeyresia pomonella L.).
8229

On the mechanization of radiosensitization by 5-bromouracil. Studies on 60Co-gamma irradiated phage phi X-174 and its single-stranded infectious DNA.
8599

RADIOACTIVE TRACERS
Toxicology and physiology of DDT resistance in the German cockroach.
8138

DNase as a component of multi-enzyme complexes in the blood of saturniid moths.
8175

Absorption of DDT and metabolism of DDT and related compounds by DDT-RESISTANT codling moths.
8180

P32-labeling of common malaria mosquitoes: assimilation by larvae and retention and transfer during mating.
8193

The influence of dietary methionine on the amino acid pool of Hymenolepis diminuta in the rat's intestine.
8498

Binding of 60-co-vitamin B12 by Ascaris suum intestine.
8517

Kinetics of Cl-36 DDT in wild waterfowl.
8561

RAINFALL
Alternaria seed infection of wheat.
8283

RAPE
A study of the activity of diphenamid and three analogs. (abstract).
8582

RAPHANUS RAPHANISTRUM
The control of wild radish in Katahdin potatoes (1967).
8398

RATS
Immunologic reactions in animals with tumors.
8446

Fluorescent antibody staining of four Babesia species.
8467

Evidence for conversion of DDT to TDE in rat liver: I. Liver/body fat ratios of TDE.
8472

Effect of biotin deficiency on food intake and body and organ weights of male albino rats.
8473

The influence of dietary methionine on the amino acid pool of Hymenolepis diminuta in the rat's intestine.
8498

Aldrin epoxidase activity of rat liver and rat liver microsomes under various conditions of storage.
8560

Degradation of parathion in the rat.
8570

Biochemical changes in rat liver in response to treatment with drugs and other agents--II. effects of halothane, DDT, other chlorinated hydrocarbons, thioacetamide, dimethylnitrosamine and ethionine.
8571

RED STELE
Development of controlled conditions for the study of red stele disease on strawberries.
8216

REGENERATION
The role of the nervous system in insect morphogenesis and regeneration.
8168

REGRESSION ANALYSIS
Estimating temperatures and heat flux in insect environments in stubbed cotton fields in the winter.
8121

Toxicology and physiology of DDT resistance in the German cockroach.
8138

Use of the multiple regression equation in the prediction of the insecticidal activity of anticholinesterase insecticides.
8143

REGULATIONS
Regulatory activities of the Connecticut State Board of Pesticide Control.
8529

REPELLENCY TESTS
Repelling pheasants from sprouting corn with a carbamate insecticide.
8443

REPORTS
Activity of the working groups: Working group on San Jose Scale .
8359

REPRODUCTION
The response of a predator, Hypoaspis aculeifer (Canestrini) (Acarina:Laelapidae), to two species of prey.
8081

Effect of temperature on the progeny production and longevity of Lespesia archippivora in the laboratory.
8093

The protein nature of the substance inducing female monogamy in Aedes aegypti. despommier, d d.
8118

Observations on the functional anatomy of the reproductive organs of Sitophilus (Coleoptera: Curculionidae).
8145

Recent advances in bee communication and orientation.
8154

Effect of irradiation on mating preference and reproduction suppression of Drosophila melanogaster.
8157

Sex pheromone specificity: Taxonomic and evolutionary aspects in Lepidoptera.
8179

Analysis of sequences of matings in Drosophila mating chamber experiments.
8184

Feeding and reproduction of the grain and the mushroom mite on wood-inhabiting hymenomycetes.
8192

The productivity of four inbred strains of Drosophila melanogaster.
8221

Grain aphids in New brunswick. IV. Effects of malathion and 2,4-D amine on aphid populations and on yields of oats and barley.
8320

Effect of 5-fluorouacil and 5-bromo-2'-deoxyuridine on the induction of thymidine kinase in polyoma virusinfected mouse embryo cells.
8488

Dieldrin effects in two generations of penned hen pheasants.
8537

Pesticide residues in a marine population of double-crested cormorants.
8545

REPRODUCTIVE ORGANS
The structure of the female genital ducts and of the spermatheca in Gryllus campestris L.
8101

Observations on the functional anatomy of the reproductive organs of Sitophilus (Coleoptera: Curculionidae).
8145

REPTILES
Biology and economic importance of the chigger Neoschongastia americana on turkeys.
8489

REPTILIA
Studies on the behaviour of Lucilia illustris Meigen as a parasite of vertebrates under experimental conditions.
8103

RESEARCH
Statistical methods in rice stem borer research.
8063

Research with ionizing irradiation on the sterilization and radiosensitivity of Chrysomela decemlineata Say.
8096

Fifty years of research on the pink bollworm in the United States.
8365

The toxicity and sublethal effects of p p'-DDT and dieldrin to Aglais urticae (L.) (Lepidoptera: Nymphalidae) and Chorthippus brunneus (Thunberg) (Saltatoria:Acrididae).
8550

Experimental research concerning the circumstances and modalities of the return of inflorescence towards the vegetative stage in Salvia glutinosa L.
8577

RESIDUES
Topical, fumigation, and residual toxicity of insecticides to rice stem borers.
8374

Hazards of insecticides and residue problems in rice cultivation.
8574

RESISTANCE
Insecticide-resistant fishes: A potential hazard to consumers.
8562

RESPIRATION
Terminal respiration in minute mutations of Drosophila.
8114

RESPIRATORY SYNCYTIAL VIRUS
The structure of the respiratory syncytial virus.
8461

RESPIROMETERS
Regulation of external respiration by the book-lung spiracles of the spiders, Arancus diadematus Clerck and A. marmoreus Clerck.
8176

RETINOIC ACID
The development of lesions in vitamin A-deficient adult fowl.
8458

REVIEWS
Acoustical communication in arthropods.
8073

Insects and the problem of austral disjunctive distribution.
8092

Trans-stadial and transovarial development of disease agents in arthropods.
8095

Recent fundamental work on tsetse flies.
8124

Recent advances in bee communication and orientation.
8154

Biological and ecological study of the hymenopterous parasites of the eggs of cereal bugs.
8182

Host-parasite interactions and the feeding of blood-sucking arthropods.
8490

RHAGOLETIS POMONELLA
A bloating disease of adults of the apple maggot.
8142

RHIZOCTONIA SOLANI
Save your potato crop from fungal and bacterial diseases.
8286

RHIZOSPHERE
Plant treatment in relation to the rhizosphere effect. III. Foliar application of certain trace elements and metallic chelates in relation to the rhizosphere microflora of rice (Oryza sativa L.).
8588

RHOPALOSIPHUM PADI
Grain aphids in New brunswick. IV. Effects of malathion and 2,4-D amine on aphid populations and on yields of oats and barley.
8320

RHUBARB
Contribution to the migratory behavior of Xiphinema diversicaudum (Mikoletzky) Thorne, X. coxi Tarjan and Longidorus macrosoma Hooper, as well as the diffusion of rhubarb mosaic virus in the field.
8382

RHYZOPERTHA DOMINICA
Dietary efficiency of natural foods for the growth and development of stored grain insect pests.
8521

RIBONUCLEASE
Correlation of nucleolytic activities with the stage of growth of the silkworm.
8151

RIBONUCLEIC ACID
On the arrangement of genes of 28s and 18s ribosomal RNA'S in Drosophila melanogaster.
8259

The sS RNA genes of Drosophila melanogaster.
8267

Genetic control of the iso-accepting forms of tyrosyl-tRna in a suppressor of Drosophila melanogaster.
8269

Degradation of turnip yellow mosaic virus by freezing and thawing in vitro: a new method for studies on the internal organization of the viral components and for isolating native RNA.
8299

In situ breakage of turnip yellow mosaic virus RNA and in situ aggregation of the fragments. Analysis of successive stages.
8309

Studies on the 5'-terminus of turnip yellow mosaic virus RNA.
8316

Semliki Forest virus temperature-sensitive mutants. isolation and characterization.
8318

RNA synthesis in chick embryo cells infected with defferent strains of NDV.
8449

RIBOSOMES
Isolation and characterization of the ribosomal proteins of Drosophila melanogaster.
8147

On the arrangement of genes of 28s and 18s ribosomal RNA'S in Drosophila melanogaster.
8259

RICE
Taxonomy of the rice stem borers.
8041

The rice stem borer forecasting system in Taiwan.
8045

A summary of the forecasting program for rice stem borer control in Japan.
8068

Mass rearing of the rice stem borer.
8119

Nutritional studies of the rice stem borer Chilo suppressalis Walker.
8140

The biology and life cycle of Chilo suppressalis (Walker) and Tryporyza (Schoenobius) incertulas (Walker) in temperature-climate areas.
8149

Piricularia oryzae, a problem common to rice growing countries.
8282

Phospho-acid esters as fungitoxic agents. Patent 3,459,857.
8313

Control of paddy stem borers by cultural practices.
8319

The major insect pests of the rice plant - proceedings of a Symposium of International Rice Research Institute, September, 1964.
8352

Assessment of rice loss caused by the rice stem borer.
8353

Techniques for assessing crop losses caused by rice stem borers in tropical areas.
8354

Varietal resistance to rice stem borers in India.
8355

Developments in insecticide control of the rice stem borer in Japan.
8356

Varietal resistance to rice stem borers in Japan.
8362

Rice leafhoppers.
8363

The possible role of biotic factors in an integrated program for rice stem borer control.
8364

Recent developments in and future prospects for the chemical control of the rice stem borer at IRRI.
8366

Varietal resistance to rice stem borers at IRRI.
8367

Ecology of common insect pests of rice.
8368

Recent developments in and future prospects for the chemical control of the rice stem borer in India.
8370

The rice gall midge Pachydiplosis oryzae (Wood-Mason).
8371

Topical, fumigation, and residual toxicity of insecticides to rice stem borers.
8374

The possible control of rice stem borers by the use on natural enemies.
8379

Impact of parasites, predators, and diseases on rice pests.
8380

Hazards of insecticides and residue problems in rice cultivation.
8574

Mode of action, translocation, oxidation, and decomposition of insecticides within the rice plants.
8581

Plant treatment in relation to the rhizosphere effect. III. Foliar application of certain trace elements and metallic chelates in relation to the rhizosphere microflora of rice (Oryza sativa L.).
8588

RICE STEM BORER
The rice stem borer forecasting system in Taiwan.
8045

A summary of the forecasting program for rice stem borer control in Japan.
8068

RICKETTSIAL DISEASES
Trans-stadial and transovarial development of disease agents in arthropods.
8095

Ticks in relation to human diseases caused by Rickettsia species.
8136

Glomerular response in human and experimental rickettsial disease (Rocky Mountain spotted fever group). A light and electron microscopy study.
8450

RIVEA HYPOCRATERIFORMIS
An interesting mode of spore liberation by Georgefischeria riveae Thirum. and Naras.
8310

ROADS
Chemical control of vegetation under highway guardrails (1967).
8400

ROBINS
Survival of sporozoites of Leucocytozoon in birds for 11 days.
8462

ROCKY MOUNTAIN SPOTTED FEVER
Glomerular response in human and experimental rickettsial disease (Rocky Mountain spotted fever group). A light and electron microscopy study.
8450

RODENTICIDES
Studies on rodents and their control. Part V. Some factors affecting lethal feeding period with warfarin.
8522

RODENTS
Studies on rodents and their control. Part V. Some factors affecting lethal feeding period with warfarin.
8522

RONIDAZOLE
Colorimetric determination of ronidazole in feeds.
8481

ROOTS
Development of controlled conditions for the study of red stele disease on strawberries.
8216

A black mildew, of the genus Diporotheca, found on roots of Nicotiana tabacum in Connecticut.
8278

The effect of diphenamid on the uptake and distribution of macronutrient elements in cabbage.
8305

The contraction of the roots of Arum italicum.
8583

Plant treatment in relation to the rhizosphere effect. III. Foliar application of certain trace elements and metallic chelates in relation to the rhizosphere microflora of rice (Oryza sativa L.).
8588

ROSA
Powdery mildew of hydrangeas.
8303

Multiple applications of 1,2-dibromo-3-chloropropane for control of nematodes in established rose plantings.
8384

ROT
Bacterial top and stalk rot disease of corn in Wisconsin.
8297

Contribution to the etiologic study and control of beet germ rotting.
8311

ROTENONE
Thin layer densitometric determination of rotenone and deguelin.
8597

ROUS SARCOMA VIRUS
Enhancement and inhibition of avian sarcoma viruses by polycations and polyanions.
8484

RUBBER
Diseases of tea, coffee and rubber discussed at the First International Congress of Plant Pathology.
8280

RUGA VERRUCOSANS
Restricted local spread of curly top in tomatoes.
8332

RYE
Recognition of a greenbug biotype injurious to sorghum.
8349

SAFFLOWER
Pollen gathering of honey bees reduced by pesticide sprays.
8205

SALES
Shell's versatile products Aldrite 4, Dieldrite 1.5 Vaponite 2 formulated for all P.C.O. business.
8613

SALIVARY GLANDS (INSECTS)
The labium of Aphelocheirus aestivalis F. as compared with that of typical Naucoridae (Heteroptera).
8169

SALMONELLA
Supplement No. XI to Kaufmann-White scheme.
8464

Prevalence of salmonellae in Virginia poultry flocks and in feed.
8468

On the common protein determinants of Enterobacteriaceae.
8594

SALMONELLA TYPHIMURIUM
Examination of antibodies and of hemagglutines, complete and incomplete for the diagnosis of Salmonella typhimurium infections.
8563

SALMONELLOSIS
Swine salmonellosis in a Hawaiian piggery.
8457

SALVIA GLUTINOSA
Experimental research concerning the circumstances and modalities of the return of inflorescence towards the vegetative stage in Salvia glutinosa L.
8577

SAND
Ecological research on arthropods of a sandy beach of the Mediterranean. II. The migrations of Talitrus saltator (Montagu) (Crustacea-Amphipoda).
8122

SANDY SOILS
Color and natural products attracting the adult sugarbeet root maggot in Southcentral Idaho.
8197

Contribution to the migratory behavior of Xiphinema diversicaudum (Mikoletzky) Thorne, X. coxi Tarjan and Longidorus macrosoma Hooper, as well as the diffusion of rhubarb mosaic virus in the field.
8382

SANITATION
Preventing and controlling internal parasites of hogs.
8510

SARCOMA
Enhancement and inhibition of avian sarcoma viruses by polycations and polyanions.
8484

SARCOPHAGA BULLATA
Haemocyte activity in relation to epidermal cell growth, cuticle secretion, and cell death in a metamorphosing cyclorrhaphan pupa.
8212

SCAPHIDIIDAE
A contribution to the knowledge of the Scaphidiidae and Pselaphidae of Korea (Coleoptera).
8046

SCAPHOIDEUS LITTORALIS
The presence in the vineyards of the Tessin of a nearctic cicadella, new for Switzerland, Scaphoideus littoralis Ball (Hom.Jassidae) a possible carrier of yellow flavescence.
8325

SCELIONIDAE
The possible control of rice stem borers by the use on natural enemies.
8379

Impact of parasites, predators, and diseases on rice pests.
8380

SCHISTOCERCA GREGARIA
Acid phosphatase activity in the digestive system of the desert locust Schistocerca gregaria (Forskal).
8166

SCHISTOSOMATIDAE
Redescription of Ornithobilharzia canaliculata (Rud.) Odhner, with notes on classification of the genus Ornithobilharzia and the subfamily Schistosomatinae (Trematoda).
8516

SCHIZAPHIS GRAMINUM
Greenbug control in grain sorghum.
8337

Recognition of a greenbug biotype injurious to sorghum.
8349

SCOLYTIDAE
How to distinguish attacks by the black turpentine beetle and Dioryctria amatella on southern pines.
8339

SCURF
Effect of crinkle-scurf of citrus on tree growth, productivity, and fruit quality.
8312

SCUTELLONEMA BRACHYURUM
Nematodes associated with soybeans in Alabama, Florida, and Georgia.
8389

SEASONAL VARIATION
Rice leafhoppers.
8363

SEDIMENTATION
In situ breakage of turnip yellow mosaic virus RNA and in situ aggregation of the fragments. Analysis of successive stages.
8309

SEED DRESSINGS
Seed dressings and game birds.
8444

SEED TREATMENT
Plant diseases and their chemical control.
8291

Insecticide treatment of seed, as a control method of the maize leaf weevil (Tanymecus dilaticollis Gyll.).
8369

SEED-BORNE PLANT DISEASES
Bacterial spot of tomato in United Arab Republic.
8304

SEEDBEDS
Use of charcoal to deactivate herbicide residues in turfgrass seedbeds.
8416

SEEDLINGS
Mass rearing of the rice stem borer.
8119

Alternaria seed infection of wheat.
8283

Apple chalcid, Torymus varians (Wlk.), (Hymenoptera: Torymidae), in Quebec.
8373

Pelleted fenuron for conversion of low-quality hardwood stands to Japanese larch.
8433

SEEDS
Bacterial spot of tomato in United Arab Republic.
8304

Some recommendations for the control of perforators of seeds of Anonaceae (Bephrata sp. order Hymenoptera).
8372

Pesticide residues in food.
8535

A study of the development of the giberellin content of embryos of Evonymus europaeus L., in the course of the stratification of seeds.
8584

SEIDLITZIA
Contribution to the knowledge of the Curculionidae from the western Mediterranean. VI. The genus Seidlitzia.
8036

SEMEN
P32-labeling of common malaria mosquitoes: assimilation by larvae and retention and transfer during mating.
8193

SEMLIKI FOREST VIRUS
Semliki Forest virus temperature-sensitive mutants. isolation and characterization.
8318

SENSE ORGANS
Investigations of the morphology and development of the scolopidia in the stick insect Carausius morosus Br.
8141

Acoustic interneurons in the brain of noctuid moths.
8177

SERODIAGNOSIS
Serological and morphological studies on the inter- and intraspecific differences of the plant-parasitic nematodes Heterodera and Ditylenchus.
8514

SEROLOGICAL TESTS
Supplement No. XI to Kaufmann-White scheme.
8464

Studies on mouse leukemia viruses. I. Isolation and characterization of a group-specific antigen.
8477

On the common protein determinants of Enterobacteriaceae.
8594

SERUM
Immunologic reactions in animals with tumors.
8446

Demonstration with indirect immunofluorescence of a cellular epsilon-antigen of the mouse.
8459

Contribution to the study of the antigenic structure of some representatives of the Aspergillus family using specific precipitation in agar.
8475

SESAMIA INFERENS
Statistical methods in rice stem borer research.
8063

SETARIA GLAUCA
Preemergence and postemergence yellow foxtail control in corn.
8429

SEWAGE
Effects of pesticides on raw wastewater.
8524

SEX
The influence of linkage phase on recombination rates in Tribolium.
8226

Sterility, lethality and segregation ratios in XYY males of Drosophila melanogaster.
8233

Genetic control of a sex influenced quantitative trait in Tribolium castaneum.
8240

In vitro growth of the infective agent responsible for the Sex Ratio condition in Drosophila bifasciata.
8243

Genetic and environmental influences upon the viability of Drosophila melanogaster metafemales.
8255

Male determining factors found on 3 autosomes in the house fly, Musca domestica L..
8271

Does cottontail sex or age affect incidence of Taenia pisiformis cysticerci.
8511

SEX ATTRACTANTS
Sex pheromone specificity: Taxonomic and evolutionary aspects in Lepidoptera.
8178

SEX BEHAVIOR
Biology of Bracon mellitor, a parasite of the boll weevil.
8070

Studies on the mating behaviour of the predaceous mite Amblyseius gossipi (Acarina, Phytoseiidae).
8112

Effect of irradiation on mating preference and reproduction suppression of Drosophila melanogaster.
8157

Analysis of sequences of matings in Drosophila mating chamber experiments.
8184

P32-labeling of common malaria mosquitoes: assimilation by larvae and retention and transfer during mating.
8193

Sex attraction and mating of lesser peach tree borer moths.
8214

Chromosome interactions affecting mating speed in Drosophila robusta.
8258

Non-random mating in Tribolium castaneum.
8265

SEX RATIOS
Investigations on the biology and control of Melolontha melolontha in hazelnut plantations.
8377

SHEEP
Immunological responses of the mammalian host against tapeworm infections. VIII. Some evidence against cellular immunity induced in sheep by activated embryos of Taenia hydatigena and T. ovis.
8491

Population studies on the infective stage of some nematode parasites of sheep. III. The distribution of strongyloid egg output in flocks of sheep.
8493

Population studies on the infective stage of some nematode parasites of sheep. II. The distribution of faecal deposits on fields grazed by sheep.
8494

The vulvar region of Haemonchus contortus (Nematoda Trichostrongylidae) in Spanish sheep, with the description supporting possible subspecies, H. contortus hispanicus.
8496

SHELLFISH
Pesticide residues in food.
8535

SHIGELLA FLEXNERI
Precise identification of the strain called Shigella paradysenteriae Y6R or Flexneri Y6R (Burnet).
8483

SHIGELLA SONNEI
Precise identification of the strain called Shigella paradysenteriae Y6R or Flexneri Y6R (Burnet).
8483

SHRUBS
Some ecological benefits of woody plant control with herbicides.
8395

SILICATES
Nutritional studies of the rice stem borer Chilo suppressalis Walker.
8140

SILVEX
Some ecological benefits of woody plant control with herbicides.
8395

Some ecological benefits of woody plant control with herbicides.
8396

SIMAZINE
Translocation patterns of simazine in Potamogeton crispus l.
8591

SIMULIIDAE
Age structure of insect populations of medical importance.
8107

Activity of repellents employed in aerosol form.
8110

Triploidy in natural populations of black flies Prosimulium macropyga Lundstr (Simuliidae, Diptera).
8223

SIMULIUM
The selective control of simulium larvae by particulate insecticides and its significance in river management.
8020

SIMULIUM VENUSTUM
The embryogenesis of the larval head of Simulium venustum Say (Diptera: Nematocera).
8225

SIPHONAPTERA
Age structure of insect populations of medical importance.
8107

SIRICIDAE
Bionomics of Siricidae.
8162

SITONA
Research on bio-ecology of Sitona crinitus (Herbst) and method for chemical control.
8148

SITOPHILUS GRANARIUS
Effect of carbon dioxide on toxicity of hydrocyanic acid and methyl bromide to adults of the confused flour beetle and granary weevil at two different temperatures.
8074

Observations on the functional anatomy of the reproductive organs of Sitophilus (Coleoptera: Curculionidae).
8145

SITOPHILUS ZEAMAIS
Observations on the functional anatomy of the reproductive organs of Sitophilus (Coleoptera: Curculionidae).
8145

SMUTS
Teliospore morphology of some smut fungi. II. Light microscopy.
8300

An interesting mode of spore liberation hy Georgefischeria riveae Thirum. and Naras.
8310

SOCIAL INSECTS
Association among species of infrequent occurrence: The insect and spider fauna of Polyporus betulinus (Bulliard) Fries.
8171

SOIL CONTAMINATION
Distrihution of insecticides sprayed by airplane on an irrigated corn plot. in: Organic pesticides in the environment; symposium...American Chemical Society, Atlantic City, N.J., Sept. 13-15, 1965. robert J. gould, ed.
8350

Persistence of pesticides in orchards and orchard soils. in; Organic pesticides in the environment; symposium...American Chemical Society, Atlantic City, N.J., Sept. 13-is, 1965. robert J. gould, ed.
8532

SOIL FUNGI
Plant treatment in relation to the rhizosphere effect. III. Foliar application of certain trace elements and metallic chelates in relation to the rhizosphere microflora of rice (Oryza sativa L.).
8588

SOIL SERIES
Color and natural products attracting the adult sugarbeet root maggot in Southcentral Idaho.
8197

Nematodes associated with soybeans in Alahama, Florida, and Georgia.
8389

SOIL STERILIZATION
Influence of soil sterilization measures on the Mycorrhiza of forest plants. (I.).
8279

SOIL TEMPERATURE
Estimating temperatures and heat flux in insect environments in stubbed cotton fields in the winter.
8121

SOILS
Persistence of pesticides in orchards and orchard soils.
8531

SOLANACEAE
Research with ionizing irradiation on the sterilization and radiosensitivity of Chrysomela decemlineata Say.
8096

A black mildew, of the genus Diporotheca, found on roots of Nicotiana tabacum in Connecticut.
8278

SOLANUM
Lycopersicon an Solanum spp. resistant to the carmine and the two-spotted spider mite.
8343

SOLANUM ANDIGENUM
First observations on the resistance of a hybrid potato variety to some Italian populations of Heterodera rostochiensis Woll.
8381

SOLENOPSIS SAEVISSIMA RICHTERI
Fire on fire ants .
8322

SONCHUS
Evidence of transovarial passage of the sowthistle yellow vein virus in the aphid Hyperomyzus lactucae.
8317

SONCHUS ARVENSIS
Control and elimination of noxious weeds.
8404

SOOTY BARK
Occurrence of Cryptostroma corticale in Northwestern United States.
8294

SORGHUM
Greenbug control in grain sorghum.
8337

Recognition of a greenbug biotype injurious to sorghum.
8349

SORGHUM VULGARE SUDANENSE
Recognition of a greenbug biotype injurious to sorghum.
8349

SOUND WAVES
Acoustic interneurons in the brain of noctuid moths.
8177

SOYBEANS
Nematodes associated with soybeans in Alabama, Florida, and Georgia.
8389

Herbicide evaluation in soybeans at Georgetown, Delaware, 1967.
8401

Chemical weed control in crops.
8427

Herbicide trials for annual weeds in soybeans. (abstract).
8428

SPECTRA
Spectrum analysis of the light emitted by Luciola lusitanica (Charp.).
8195

SPECTROPHOTOMETRY
Movement of calcium and magnesium across the midgut epithelium of the American cockroach.
8183

Colorimetric determination of ronidazole in feeds.
8481

Comparison of assay methods for studying O,O-diethyl, O-p-nitrophenyl phosphate (paraoxon) detoxification in vitro.
8568

SPECTROSCOPY
Spectrum analysis of the light emitted by Luciola lusitanica (Charp.).
8195

SPERMATHECA
The structure of the female genital ducts and of the spermatheca in Gryllus campestris L.
8101

Observations on the functional anatomy of the reproductive organs of Sitophilus (Coleoptera: Curculionidae).
8145

SPERMATOZOA
Microtubules in the spermatids of the silkworm (Bombyx mori L.).
8102

Observations on the functional anatomy of the reproductive organs of Sitophilus (Coleoptera: Curculionidae).
8145

Carnitine acetyltransferase in developing and mature sperm of wild-type and mutant Drosophila melanogaster.
8231

SPHINGIDAE
How to control insects on field tobacco.
8347

SPIDERS
The old house borer in Eastern States.
8076

Association among species of infrequent occurrence: The insect and spider fauna of Polyporus betulinus (Bulliard) Fries.
8171

Regulation of external respiration by the booklung spiracles of the spiders, Araneus diadematus Clerck and A. marmoreus Clerck.
8176

SPIRACLES
Regulation of external respiration by the booklung spiracles of the spiders, Araneus diadematus Clerck and A. marmoreus Clerck.
8176

SPODOPTERA
Azodrin for corn earworm and fall armyworm control and its persistance in sweet corn.
8069

SPODOPTERA EXIGUA
Insect parasite complex berseem armyworm Spodoptera exigua (Hubn.) (Lepidoptera, Noctuidae).
8082

Effect of temperature on the progeny production and longevity of Lespesia archippivora in the laboratory.
8093

SPODOPTERA FRUGIPERDA
Azodrin for corn earworm and fall armyworm control and its persistance in sweet corn.
8069

SPORANGIA
Development of controlled conditions for the study of red stele disease on strawberries.
8216

SPORE DISPERSAL
An interesting mode of spore liberation by Georgefischeria riveae Thirum. and Naras.
8310

SPORES
An epizootic disease of Tarichium (Entomophthoraceae) on the larvae of Ocnogyna parasita Hbn. (Lepidoptera, Arctiidae).
8215

SPOROZOITES
Survival of sporozoites of Leucocytozoon in birds for 11 days.
8462

SPOTTED FEVER
Ticks in relation to human diseases caused by Rickettsia species.
8136

SPRAYING
Pollen gathering of honey bees reduced by pesticide sprays.
8205

Powdery mildew of hydrangeas.
8303

Fire on fire ants .
8322

Double your cotton yield by spraying.
8324

Control of the boll weevil by mechanically destroying fallen infested cotton squares.
8331

Cabbage looper control in Florida - a cooperative program.
8345

How to control insects on field tobacco.
8347

Control and elimination of noxious weeds.
8404

Report on the current and planned local noxious weed control programs in New Jersey.
8414

From weeds to pasture in one year.
8431

The effects of phytobland oils and spray volume on postemergence activity of atrazine and combinations of atrazine with linuron in corn.
8440

Pesticide drift. I. High-clearance vs. aerial application of sprays.
8533

Pesticide drift. II. Mist-blower vs. aerial application of sprays.
8555

Fish losses after forest sprayings with insecticides in New Brunswick, 1952-62, as shown by caged specimens and other observations.
8567

Broadcast spraying.
8612

SPRAYING EQUIPMENT
Chemical clearing of transmission line right of way in quebec.
8394

Pesticide drift. I. High-clearance vs. aerial application of sprays.
8533

Broadcast spraying.
8612

SQUASH
Analysis of potato for residue of C-3126 and of squash for residue of prometryne.
8544

STAINING
Fluorescent antibody staining of tobacco mosaic virus antigen in tobacco mesophyll protoplasts.
8307

STALK ROT
Bacterial top and stalk rot disease of corn in Wisconsin.
8297

STAMENS
The elongation of stamen filaments in Graminaceae.
8589

STAPHYLOCOCCUS
Leukocyte system of rabbits receiving repeated injections of staphylococcal leukocidin.
8482

STATISTICAL ANALYSIS
Observations on brachypterism in Encyrtus rufulus Mercet (Hym. Chalcidoidea, Encyrtidae).
8021

Age structure of insect populations of medical importance.
8107

Variation-statistical research on the female of Formica lugubris Zett.
8153

The influence of linkage phase on recombination rates in Tribolium.
8226

Genetic mapping of behavioral mutants in Drosophila melanogaster by countercurrent distribution.
8249

Evaluation of forest insect infestations.
8357

Population studies on the infective stage of some nematode parasites of sheep. III. The distribution of strongyloid egg output in flocks of sheep.
8493

Population studies on the infective stage of some nematode parasites of sheep. II. The distribution of faecal deposits on fields grazed by sheep.
8494

STATISTICAL METHODS
Statistical methods in rice stem borer research.
8063

STEGOBIUM PANICEUM
Dietary efficiency of natural foods for the growth and development of stored grain insect pests.
8521

STEMPHYLIUM
Alternaria seed infection of wheat.
8283

STEPHANURUS DENTATUS
The excretory system of the kidney worm Stephanurus dentatus (Nematoda).
8512

STERILITY
Sterility, lethality and segregation ratios in XYY males of Drosophila melanogaster.
8233

Ultrastructural study of hybrid sterility in Drosophila paulistrom.
8237

Inheritance of semi-sterility and transmission of chromosome rearrangements and fragments for 3 generations in the large milkweed bug.
8241

Releases of unsexed gamma-irradiated codling moths for population suppression.
8378

Bovine vibriosis.
8478

STERILIZATION
Preliminary laboratory study of the effect of X rays on the fertility of Carpocapsa pomonella (Laspeyresia pomonella L.).
8229

Fifty years of research on the pink bollworm in the United States.
8365

STERILIZATION (INSECTS)
Research with ionizing irradiation on the sterilization and radiosensitivity of Chrysomela decemlineata Say.
8096

STORAGE
Pre-harvest use of chemicals in potato production.
8403

Aldrin epoxidase activity of rat liver and rat liver microsomes under various conditions of storage.
8560

STORED PRODUCTS
Effect of gamma radiation on the insecticidal efficiency of malathion deposits on wheat and kraft paper.
8519

Dietary efficiency of natural foods for the growth and development of stored grain insect pests.
8521

STRAWBERRIES
Development of controlled conditions for the study of red stele disease on strawberries.
8216

Resistance of strawberry varieties to leaf scorch disease.
8314

STREAMS
Fish losses after forest sprayings with insecticides in New Brunswick, 1952-62, as shown by caged specimens and other observations.
8567

STREPTOMYCES
Antibiotics 15 and methods for their production. Patent 3,348,626.
8486

STREPTOMYCIN
Influence of 2,4-D and streptomycin on the nitrogen metabolism of buckwheat seedlings and its relation to the anthocyanin biosynthesis.
8587

STRIDULATION
Acoustical communication in arthropods.
8073

STRONGYLOIDES
Population studies on the infective stage of some nematode parasites of sheep. III. The distribution of strongyloid egg output in flocks of sheep.
8493

STROPHOSOMUS MELANOGRAMMUS
Observations on Strophosomus melanogrammus (Forst.), Polydrosus marginatus Steph. and Otiorrhynchus armadillo (Rossi) (Coleoptera Curculionidae), pests of Pseudotsuga douglasii Carr. in Tuscany.
8333

STUBBLE
Estimating temperatures and heat flux in insect environments in stubbled cotton fields in the winter.
8121

SUBTERRANEAN CLOVER
From weeds to pasture in one year.
8431

SUCROSE
The elongation of stamen filaments in Graminaceae.
8589

SUGAR
Color and natural products attracting the adult sugarbeet root maggot in Southcentral Idaho.
8197

SUGAR BEETS
Color and natural products attracting the adult sugarbeet root maggot in Southcentral Idaho.
8197

Chemical control of a species of the false chinch-bug group on wheat and sugar beets.
8336

Methods of weed control in sugar beets.
8432

Weed control in sugar beets with preemergence herbicides.
8436

SUGARS
Gut absorption.
8207

SULFANILAMIDO-2,6-DIMETHOXYPYRIMIDINE, 4-
Methods of treating coccidiosis with 4-sulfanilamido-2,6-dimethoxypyrimidine. Patent 3,458,631.
8448

SULFOTEPP
Residuals of pesticides in cultivated mushrooms.
8556

SULFUR
Degradation of parathion in the rat.
8570

SULFURIC ACID
Studies on the effect of sulfuric-fuming nitric acid treatment on the analytical characteristics of toxaphene.
8603

SURFACE-ACTIVE AGENTS
Herbicide evaluation in soybeans at Georgetown, Delaware, 1967.
8401

Preemergence and postemergence yellow foxtail control in corn.
8429

Effects of oil and surfactant on residues of atrazine in field grown corn.
8540

The absorption and accumulation of atrazine in barnyardgrass at various stages of development.
8542

SURVEYS
Survey and distribution of common lady beetles (Col. Coccinellidae) on date palm trees in Israel.
8042

A new genus and several new species of aphid parasites (Hym. Aphidiidae).
8048

Insect parasite complex berseem armyworm Spodoptera exigua (Hubn.) (Lepidoptera, Noctuidae).
8082

Daily and seasonal density of four entomophagous predators on cotton in upper Egypt.
8130

Tomato virus diseases in closed and opened soil of the Estonian SSR.
8293

A nucleopolyhedrosis virus in populations of the Douglas-fir tussock moth, Hemerocampa pseudotsugata, in California.
8335

The natural enemies of the chaff scale, Parlatoria pergandii Comstock, in Israel.
8344

Impact of parasites, predators, and diseases on rice pests.
8380

SWINE
Swine salmonellosis in a Hawaiian piggery.
8457

Preventing and controlling internal parasites of hogs.
8510

SYMBIOSIS
Fungal-insect mutualism in trees and timber.
8125

SYMPOSIA
Diseases of tea, coffee and rubber discussed at the First International Congress of Plant Pathology.
8280

The major insect pests of the rice plant - proceedings of a Symposium of International Rice Research Institute, September, 1964.
8352

SYMPTOMATOLOGY
The effects of an acute DDT exposure on the spontaneous electrical activity of goldfish cerebellum.
8558

SYNANTHEDON PICTIPES
Sex attraction and mating of lesser peach tree borer moths.
8214

SYNERGISM
Use of the multiple regression equation in the prediction of the insecticidal activity of anticholinesterase insecticides.
8143

SYNERGISTS
On the effect of synthetic synergists upon the knockdown speed of pyrethroids against larvae of the common house mosquito, Culex pipiens pallens Coquillett.
8158

SYNTHESIS
Quantitative determination of DNA content during formation of one of the puffs and one of the Balbiani rings in Chironomus dorsalis.
8264

Control of helminthiasis with a series of 2-(omega-(2-thienyl)alkyl)-, 2-(2-(2-thienyl)vinyl) and the corresponding isomeric 3-thienyl derivatives of thiazoline and 5,6-dihydro-4H-1,3-thiazine. Patent 3,458,633.
8447

RNA synthesis in chick embryo cells infected with defferent strains of NDV.
8449

Effect of 5-fluorouacil and 5-hromo-2'-deoxyuridine on the induction of thymidine kinase in polyoma virusinfected mouse embryo cells.
8488

Biochemical studies on Bakanae fungus. Part 74. Synthesis of substances related to gibberellins. Part XVI An alternate synthetic route to a gibbane-10-carboxylic acid.
8586

Isolation of the novel regulatory mutants of the tryptophan biosynthetic system in Escherichia coli.
8602

Nortricyclic-3-ureas and their herbicidal compositions and methods of use. Patent 3,454,393.
8606

Process for the manufacture of a pesticide from petroleum hydrocarbons. Patent 3,454,664.
8609

SYRPHIDAE
Air swallowing- an effective protection against drowning in larvae of Epistrophe balteata (Syrphidae Dipt.).
8185

SYSTEMIC INSECTICIDES
Pesticide usage in relation to beekeeping.
8075

Viruses-agents of disease.
8281

Systemic insecticides in trees.
8585

T, 2,4,5-
Some ecological benefits of woody plant control with herbicides.
8395

Some ecological benefits of woody plant control with herbicides.
8396

Control and elimination of noxious weeds.
8404

The response of brush to picloram, dicamba, 2,3,6-TBA and phenoxy herbicides.
8435

TABANIDAE
The types of tabanids in the zoological collection of the Bavarian States in Munich (Diptera, Tabanidae).
8049

TABLES (DATA)
Variation-statistical research on the female of Formica lugubris Zett.
8153

On the arrangement of genes of 28s and 18s ribosomal RNA'S in Drosophila melanogaster.
8259

Nematodes associated with soybeans in Alahama, Florida, and Georgia.
8389

TACHINIDAE
Insect parasite complex herseem armyworm Spodoptera exigua (Hubn.) (Lepidoptera, Noctuidae).
8082

Effect of temperature on the progeny production and longevity of Lespesia archippivora in the lahoratory.
8093

TAENIA
Parasites as biological models.
8507

TAENIA HYDATIGENA
Immunological responses of the mammalian host against tapeworm infections. VIII. Some evidence against cellular immunity indueed in sheep hy aetivated embryos of Taenia hydatigena and T. ovis.
8491

TAENIA OVIS
Immunologieal responses of the mammalian host against tapeworm infections. VIII. Some evidenee against cellular immunity induced in sheep by aetivated embryos of Taenia hydatigena and T. ovis.
8491

TAENIA PISIFORMIS
Does cottontail sex or age affect incidence of Taenia pisiformis cysticerci .
8511

TAENIOTHRIPS
Thaeniothrips vuilleti Bagnall 1933 and Thaeniothrips falsus Priesner 1936.
8061

Investigations concerning the taxonomy of German Thysanoptera. 5. Thaeniotrips linariae Pr. 1928 and Thaeniotrips hildae Tek. 1956.
8062

TAGETES
Chemical weed control in direct seeded marigolds.
8412

Effect of several herbicides on flower production, growth and weed control in marigolds.
8590

TALITRUS SALTATOR
Ecological research on arthropods of a sandy beach of the Mediterranean. II. The migrations of Talitrus saltator (Montagu) (Crustaeea-Amphipoda).
8122

TANNINS
Pathological changes in the trunk of Prunus armeniaca L. and their relationship to the premature death of apricots. I. Investigations in the area of wood structure.
8308

TARAXACUM OFFICINALE
Control of dandelion and spotted-spurge in lawn turf with herbicides.
8423

TAXONOMY
Biochemistry and taxonomy.
8060

A critical review of Bacillus thuringiensis var. Thuringiensis berliner and other crystalliferous hacteria.
8132

Entomophthora pyriformis sp. n. a fungus parasite of the Aphididae.
8204

Contributions to the knowledge of the Italian nematode fauna. I. Genus Meloidgyne Goeldi, 1887.
8388

The vulvar region of Haemonchus contortus (Nematoda Trichostrongylidae) in Spanish sheep, with the description supporting possible subspecies, H. contortus hispanicus.
8496

Redescription of Ornithobilharzia canaliculata (Rud.) Odhner, with notes on classification of the genus Ornithobilharzia and the subfamily Schistosomatinae (Trematoda).
8516

The electrical resistivity of suspensions of mycobacteria. Comparative study on various species. Taxonomic applications.
8611

TDE
Toxicology and physiology of DDT resistance in the German cockroach.
8138

Absorption of DDT and metabolism of DDT and related compounds by DDT-RESISTANT codling moths.
8180

Evidence for conversion of DDT to TDE in rat liver: I. Liver/body fat ratios of TDE.
8472

DDT residues in Adelie penguins and a crabeater seal from Antarctica.
8552

Fish losses after forest sprayings with insecticides in New Brunswick, 1952-62, as shown by caged specimens and other observations.
8567

TEA
Diseases of tea, coffee and rubber discussed at the First International Congress of Plant Pathology.
8280

TELIOSPORES
Teliospore morphology of some smut fungi. II. Light microscopy.
8300

TEMPERATURE
Biology of Bracon mellitor, a parasite of the boll weevil.
8070

Effect of carbon dioxide on toxicity of hydrocyanic acid and methyl bromide to adults of the confused flour beetle and granary weevil at two different temperatures.
8074

Effect of temperature on the progeny production and longevity of Lespesia archippivora in the laboratory.
8093

Estimating temperatures and heat flux in insect environments in stubbed cotton fields in the winter.
8121

Research on the pathogenesis of Nosema melolonthae Krieg..
8146

The biology and life cycle of Chilo suppressalis (Walker) and Tryporyza (Schoenobius) incertulas (Walker) in temperature-climate areas.
8149

Biological investigations on Pandemis heparana (Den. and Schiff.) with special consideration given to the factors inducing diapause and influencing egg laying.
8155

Photoperiod and temperature as factors controlling the diapause of the sunflower moth, Homoeosoma electellum.
8201

Development of controlled conditions for the study of red stele disease on strawberries.
8216

The influence of linkage phase on recombination rates in Tribolium.
8226

Genetic and environmental variability for bristles in Drosophila.
8227

Degradation of turnip yellow mosaic virus by freezing and thawing in vitro: a new method for studies on the internal organization of the viral components and for isolating native RNA.
8299

Semliki Forest virus temperature-sensitive mutants. isolation and characterization.
8318

Neodiprion taedae lincaris: A sawfly pest of loblolly and shortleaf pines.
8334

Recombination in Newcastle disease virus (NDV): the problem of complementing heterozygotes.
8453

Aldrin epoxidase activity of rat liver and rat liver microsomes under various conditions of storage.
8560

The elongation of stamen filaments in Graminaceae.
8589

The electrical resistivity of suspensions of mycobacteria. Comparative study on various species. Taxonomic applications.
8611

TERMITES
The Gold Crest Pest Control Program for the pest control industry.
8614

TETANOPS MYOPAEFORMIS
Color and natural produets attracting the adult sugarbeet root maggot in Southcentral Idaho.
8197

TETRAMETHYL-P-PIPERIDINOPHOSPHONIC DIAMIDE, N,N,N',N'
The residual of N,N,N',N'-tetramethyl-ppiperidinophosphonic diamide after injection, tarsal contact, and topical application to the boll weevil.
8202

TETRANYCHUS TELARIUS
Lycopersicon an Solanum spp. resistant to the carmine and the two-spotted spider mite.
8343

TETRANYCHUS URTICAE
Lycopersicon an Solanum spp. resistant to the carmine and the two-spotted spider mite.
8343

THEREVIDAE
Notes on British Therevidae (Diptera).
8047

THERMOPERIODISM
The elongation of stamen filaments in Graminaceae.
8589

THIAZINES
Control of helminthiasis with a series of 2-(omega-(2-thienyl)alkyl)-, 2-(2-(2-thienyl)vinyl) and the corresponding isomeric 3-thienyl derivatives of thiazoline and 5,6-dihydro-4H-1,3-thiazine. Patent 3,458,633.
8447

THIAZOLINES
Control of helminthiasis with a series of 2-(omega-(2-thienyl)alkyl)-, 2-(2-(2-thienyl)vinyl) and the corresponding isomeric 3-thienyl derivatives of thiazoline and 5,6-dihydro-4H-1,3-thiazine. Patent 3,458,633.
8447

THIOACETAMIDE
Biochemical changes in rat liver in response to treatment with drugs and other agents--II. effects of halothane, DDT, other chlorinated hydrocarbons, thioacetamide, dimethylnitrosamine and ethionine.
8571

THIOCARBAMATES
Save your potato crop from fungal and bacterial diseases.
8286

Neck rot in onions.
8296

Modification of the carbon disulfide evolution method for dithiocarbamate residues.
8604

THIRAM
Contribution to the etiologic study and control of beet germ rotting.
8311

THYMIDINE KINASE
Effect of 5-fluorouacil and 5-bromo-2'-deoxyuridine on the induction of thymidine kinase in polyoma virusinfected mouse embryo cells.
8488

THYMUS GLAND
Demonstration with indirect immunofluorescence of a cellular epsilon-antigen of the mouse.
8459

THYROPROTEIN
Secretion of DDT by lactating cows fed thyroprotein.
8553

THYSANOPTERA
Thaeniothrips vuilleti Bagnall 1933 and Thaeniothrips falsus Priesner 1936.
8061

Investigations concerning the taxonomy of German Thysanoptera. 5. Thaeniotrips linariae Pr. 1928 and Thaeniotrips hildae Tck. 1956.
8062

TILLAGE
Control and elimination of noxious weeds.
8404

TIME
Research on bio-ecology of Sitona crinitus (Herbst) and method for chemical control.
8148

TIN COMPOUNDS
Process for desiccating plants. Patent 3,454,390.
8434

TINEOLA BISSELLIELLA
Gardona as a mothproofer of woolen fabric.
8518

TISSUE CULTURE
Aggregation of Drosophila embryonic cells and effects of proteolytic enzymes.
8077

In vitro synthesis of injury protein and a companion protein in organs of prepupa of Galleria mellonella L..
8156

In vitro growth of the infective agent responsible for the Sex Ratio condition in Drosophila bifasciata.
8243

The demonstration of a single species of an unclassified bacterium in five cases of bovine lymphosarcoma.
8469

TISSUES
Improved extraction of chlorinated hydrocarbon pesticides from animal tissues.
8547

Distribution of pesticide residues in human body tissues from Montgomery County, Ohio. in: Organic pesticides in the environment; symposium...American Chemical Society Atlantic City, N.J., Sept. 13-15, 1965. robert J. Gould, ed.
8573

TOBACCO
A black mildew, of the genus Diporotheca, found on roots of Nicotiana tabacum in Connecticut.
8278

Tobacco mosaic virus in dividing mesophyll cells of Nicotiana.
8290

How to control insects on field tobacco.
8347

GLC determination of residues of disulfoton, oxydemetonmethyl, and their metabolites in tobacco plants.
8596

TOBACCO MOSAIC VIRUS
Viruses-agents of disease.
8281

Tobacco mosaic virus in dividing mesophyll cells of Nicotiana.
8290

An electron microscopy study of the penetration of tobacco mosaic virus into leaves following experimental inoculation.
8292

Tomato virus diseases in closed and opened soil of the Estonian SSR.
8293

Fluorescent antibody staining of tobacco mosaic virus antigen in tobacco mesophyll protoplasts.
8307

TOLERANCES
Tolerances of three species of anuran amphibians to five chlorinated hydrocarbon insecticides.
8541

Effect of forage processing on dalapon residue.
8548

TOMATOES
Tomato virus diseases in closed and opened soil of the Estonian SSR.
8293

Bacterial spot of tomato in United Arab Republic.
8304

Restricted local spread of curly top in tomatoes.
8332

A study of the activity of diphenamid and three analogs. (abstract).
8582

TORTRICIDAE
New species of the Laspeyresia succedana Schiff. group (Lep. Tortricidae).
8052

Biological investigations on Pandemis heparana (Den. and Schiff.) with special consideration given to the factors inducing diapause and influencing egg laying.
8155

Sex pheromone specificity: Taxonomic and evolutionary aspects in Lepidoptera.
8178

How to control insects on field tobacco.
8347

TORYMIDAE
Paraholaspis ovivora n. sp. (Hym., Torymidae), a parasite of the eggs of the buprestid Sterapis speciosa Klug..
8055

TORYMUS VARIANS
Apple chalcid, Torymus varians (Wlk.), (Hymenoptera: Torymidae), in Quebec.
8373

TOXAPHENE
Pollen gathering of honey bees reduced by pesticide sprays.
8205

Identification and measurement of chlorinated organic pesticides in water by electron-capture gas chromatography.
8527

Identification and measurement of chlorinated organic pesticides in water by electron-capture gas chromatography.
8528

Determination of pesticides in water by microcoulometric gas chromatography after liquid-liquid extraction.
8530

Tolerances of three species of anuran amphibians to five chlorinated hydrocarbon insecticides.
8541

Studies on the effect of sulfuric-fuming nitric acid treatment on the analytical characteristics of toxaphene.
8603

TOXICITY
Pathological changes in the trunk of Prunus armeniaca L. and their relationship to the premature death of apricots. I. Investigations in the area of wood structure.
8308

Effects of pesticides on raw wastewater.
8524

TOXICODENDRON RADICANS
Report on the current and planned local noxious weed control programs in New Jersey.
8414

TOXICOLOGY
Some ecological benefits of woody plant control with herbicides.
8396

The toxicity and sublethal effects of p p'-DDT and dieldrin to Aglais urticae (L.) (Lepidoptera: Nymphalidae) and Chorthippus brunneus (Thunberg) (Saltatoria:Acrididae).
8550

Dynamics of arsenic cumulation in hairless mice after peroral administration.
8559

Insecticide-resistant fishes: A potential hazard to consumers.
8562

Malathion-induced teratisms in the developing chick.
8564

Response of robins to DDT and methoxychlor.
8565

Comparison of assay methods for studying O,O-diethyl, O-p-nitrophenyl phosphate (paraoxon) detoxification in vitro.
8568

Mode of action of insecticide synergists.
8569

Degradation of parathion in the rat.
8570

Biochemical changes in rat liver in response to treatment with drugs and other agents--II. effects of halothane, DDT, other chlorinated hydrocarbons, thioacetamide, dimethylnitrosamine and ethionine.
8571

Structure-activity and metabolism studies on organophosphate teratogens and their alleviating agents in developing hen eggs with special emphasis on Bidrin.
8572

TOXINS
The influence of Bacillus thuringiensis toxins on various physiological characters of Drosophila adults.
8104

A critical review of Bacillus thuringiensis var. Thuringiensis berliner and other crystalliferous bacteria.
8132

Leukocyte system of rabbits receiving repeated injections of staphyloecocal leukocidin.
8482

Biochemical changes in rat liver in response to treatment with drugs and other agents--II. effects of halothane, DDT, other chlorinated hydrocarbons, thioacetamide, dimethylnitrosamine and ethionine.
8571

TOXOCARA CANIS
Purification and immunochemical analysis of a genus-specific cuticular antigen of Toxocara canis.
8502

TRAMETES
Pathological changes in the trunk of Prunus armeniaca L. and their relationship to the premature death of apricots. 1. Investigations in the area of wood structure.
8308

TRANSPLANTING
Control of paddy stem borers by cultural practices.
8319

TRAPS
Pit construction by myrmeleontid larvae.
8217

TREE DISEASES
Feeding and reproduction of the grain and the mushroom mite on wood-inhabiting hymenomycetes.
8192

Influence of soil sterilization measures on the Mycorrhiza of forest plants. (1.).
8279

Control of vascular tree diseases with trichlorophenyl acetic acids. Patent 3,458,640.
8306

Pathological changes in the trunk of Prunus armeniaca L. and their relationship to the premature death of apricots. 1. Investigations in the area of wood structure.
8308

TREES
New species of Ceratocystis associated with bark injuries on deciduous fruit trees.
8289

Systemic insecticides in trees.
8585

TREMATODA
Preventing and controlling internal parasites of hogs.
8510

Redescription of Ornithobilharzia canaliculata (Rud.) Odhner, with notes on classification of the genus Ornithobilharzia and the subfamily Schistosomatinae (Trematoda).
8516

TRIAZINES
Effectiveness of triazines and EPTC for weed control in seedling legumes.
8422

TRIBOLIUM CASTANEUM
The influence of linkage phase on recombination rates in Tribolium.
8226

Heterozygosity in inbred lines of Tribolium castaneum.
8230

Genetic control of a sex influenced quantitative trait in Tribolium castaneum.
8240

Non-random mating in Tribolium castaneum.
8265

Developmental time of geographical populations of Tribolium castaneum.
8266

Effect of gamma radiation on the insecticidal efficiency of malathion deposits on wheat and kraft paper.
8519

TRIBOLIUM CONFUSUM
Effect of carbon dioxide on toxicity of hydrocyanic acid and methyl bromide to adults of the confused flour beetle and granary weevil at two different temperatures.
8074

TRICHINELLA SPIRALIS
Activity of parbendazole upon Trichinella spiralis in mice.
8508

TRICHLORFON
Experiments on the insecticidal control of Oxycanus fuscomaculatus Walker (Lepidoptera: Hepialidae).
8348

Some recommendations for the control of perforators of seeds of Anonaceae (Bephrata sp. order Hymenoptera).
8372

TRICHLOROACETIC ACID
Contribution to risk of damage in the practical use herbicides.
8418

Weed control in sugar beets with preemergence herbicides.
8436

TRICHLOROBENZOIC ACID, 2,3,6-
Contribution to risk of damage in the practical use herbicides.
8418

The response of brush to picloram, dicamba, 2,3,6-TBA and phenoxy herbicides.
8435

TRICHOGRAMMA
Mass rearing of the rice stem borer.
8119

The possible role of biotic factors in an integrated program for rice stem borer control.
8364

Impact of parasites, predators, and diseases on rice pests.
8380

TRICHOMONIASIS
Preparation of nitroimidazole carbamates. patent 3,459,764.
8463

TRICHOPLUSIA NI
Cabbage looper control in Florida - a cooperative program.
8345

TRICHOPTERA
The evolution and past dispersal of the Trichoptera.
8181

The evolution and genetics of insect behaviour.
8228

TRIOZA KOREANA
New and little known species of the family Trioza Forst. (Homoptera, Psyllidae) from Korea.
8150

TRIOZA MYOHYANGI
New and little known species of the family Trioza Forst. (Homoptera, Psyllidae) from Korea.
8150

TRIOZA OBLIQUA OBLIQUA
New and little known species of the family Trioza Forst. (Homoptera, Psyllidae) from Korea.
8150

TROGODERMA GRANARIUM
Dietary efficiency of natural foods for the growth and development of stored grain insect pests.
8521

TROMBICULIDAE
Three new species of subgenus Parasecia Loomis (genus Fonsecia) from northeastern Brazil and a key to the included species (Acarina: Trombiculidae).
8024

Biology and economic importance of the chigger Neoschongastia americana on turkeys.
8489

TROUT
Role of intestinal microflora in the degradation of DDT by rainbow trout (Salmo gairdneri).
8575

TRYPANOSOMA LEWISI
The fine-structure of the epimastigote forms of Trypanosoma lewisi in the rectum of the flea, Nosopsyllus fasciatus.
8161

TRYPODENDRON LINEATUM
A continously recording flight mill for investigating the effect of volatile substances on the flight of teathered insects.
8087

TRYPORYZA INCERTULAS
Assessment of the field population of the rice stem borer moth by light trap.
8040

Statistical methods in rice stem borer research.
8063

Physiology of rice stem borers, including hibernation and diapause.
8120

The biology and life cycle of Chilo suppressalis (Walker) and Tryporyza (Schoenobius) incertulas (Walker) in temperature-climate areas.
8149

Assessment of rice loss caused by the rice stem borer.
8353

TRYPTOPHAN
Isolation of the novel regulatory mutants of the tryptophan biosynthetic system in Eschericia coli.
8602

TUBERCULINA MAXIMA
The ineffectiveness of cycloheximide and phytoactin as chemical controls of the blister rust disease.
8301

TUBERS
Save your potato crop from fungal and bacterial diseases.
8286

TURF
Effect of organic and inorganic nitrogen on nematode populations on turf.
8383

Effectiveness of preemergence crabgrass herbicides for lawns and putting-green turf.
8417

TURKEYS
Colorimetric determination of ronidazole in feeds.
8481

Biology and economic importance of the chigger Neoschongastia americana on turkeys.
8489

TURNIPS
Degradation of turnip yellow mosaic virus by freezing and thawing in vitro: a new method for studies on the internal organization of the viral components and for isolating native RNA.
8299

In situ breakage of turnip yellow mosaic virus RNA and in situ aggregation of the fragments. Analysis of successive stages.
8309

Studies on the 5'-terminus of turnip yellow mosaic virus RNA.
8316

TYLENCHIDAE
New data on the distribution and biology of the couch grass nematode (Paranguina agropyri Kirjanova, 1955 (Nematoda: Tylenchida).
8385

TYLENCHORHYNCHUS
Pathogenicity of Hemicriconemoides species to coffee.
8386

TYLENCHUS EXIGUUS
Plant-parasitic nematodes in marginal Pinus ponderosa stands in central New Mexico.
8390

TYPHUS
Ticks in relation to human diseases caused by Rickettsia species.
8136

TYROPHAGUS PUTRESCENTIAE
The response of a predator, Hypoaspis aculeifer (Canestrini) (Acarina:Laelapidae), to two species of prey.
8081

Feeding and reproduction of the grain and the mushroom mite on wood-inhabiting hymenomycetes.
8192

ULTRA-LOW-VOLUME SPRAYING
Mosquito control in and around homes and farmsteads.
8274

UREA COMPOUNDS
Aryl alkoxythioureas. Patent 3,457,292.
8601

Nortricyclic-3-ureas and their herbicidal compositions and methods of use. Patent 3,454,393.
8606

USTILAGINALES
Teliospore morphology of some smut fungi. II. Light microscopy.
8300

An interesting mode of spore liberation by Georgefischeria riveae Thirum. and Naras.
8310

VACCINES
Attempt to detect fowl leukemia virus in living virus vaccines prepared in eggs.
8465

VEGETABLES
In situ breakage of turnip yellow mosaic virus RNA and in situ aggregation of the fragments. Analysis of successive stages.
8309

Host-parasite relationships of various plants and the hop cyst nematode, Heterodera humuli.
8391

VENEREAL DISEASES
Bovine vibriosis.
8478

VENOMS
Controlling wasps.
8071

Fire on fire ants.
8322

VERONICA FILIFORMIS
Postemergence control of Veronica filiformis with DCPA.
8430

VERTEBRATES
Insecticide-cytoplasmic interactions in insects and vertebrates.
8203

Secondary effects of entomophagous fungi on humans and vertebrates: Actual cases.
8471

VESPIDAE
Controlling wasps.
8071

VETERINARY MEDICINE
Diseases of mink.
8466

VIABILITY
Effects of controlled heterozygosis on viability in Drosophila melanogaster.
8252

Genetic and environmental influences upon the viability of Drosophila melanogaster metafemales.
8255

VIBRIO FETUS
Bovine vibriosis.
8478

VIBRIOSIS
Bovine vibriosis.
8478

VIRAL VACCINES
Attempt to detect fowl leukemia virus in living virus vaccines prepared in eggs.
8465

VIROLOGY
Tobacco mosaic virus in dividing mesophyll cells of Nicotiana.
8290

An electron microscopy study of the penetration of tobacco mosaic virus into leaves following experimental inoculation.
8292

Identification of viruses isolated from cowpeas in Alabama.
8295

Degradation of turnip yellow mosaic virus by freezing and thawing in vitro: a new method for studies on the internal organization of the viral components and for isolating native RNA.
8299

Fluorescent antibody staining of tobacco mosaic virus antigen in tobacco mesophyll protoplasts.
8307

In situ breakage of turnip yellow mosaic virus RNA and in situ aggregation of the fragments. Analysis of successive stages.
8309

Evidence of transovarial passage of the sowthistle yellow vein virus in the aphid Hyperomyzus lactucae.
8317

Semliki Forest virus temperature-sensitive mutants. isolation and characterization.
8318

RNA synthesis in chick embryo cells infected with defferent strains of NDV.
8449

Recombination in Newcastle disease virus (NDV): the problem of complementing heterozygotes.
8453

Histone-mediated clumping of Newcastle disease virus (NDV).
8454

The structure of the respiratory syncytial virus.
8461

Studies on mouse leukemia viruses. I. Isolation and characterization of a group-specific antigen.
8477

Syncytia formation of mosquito cell cultures mediated by type 2 dengue virus.
8480

The polypeptides of adenovirus. III. Synthesis in infected cells.
8487

Effect of 5-fluorouacil and 5-bromo-2'-deoxyuridine on the induction of thymidine kinase in polyoma virusinfected mouse embryo cells.
8488

VIRUS DISEASES
Trans-stadial and transovarial development of disease agents in arthropods.
8095

VIRUS DISEASES (ANIMALS)
Semliki Forest virus temperature-sensitive mutants. isolation and characterization.
8318

RNA synthesis in chick embryo cells infected with defferent strains of NDV.
8449

Recombination in Newcastle disease virus (NDV): the problem of complementing heterozygotes.
8453

Histone-mediated clumping of Newcastle disease virus (NDV).
8454

Autoradiographic study of the effect of Newcastle disease virus on the mitotic cycle of cells.
8456

The structure of the respiratory syncytial virus.
8461

Attempt to detect fowl leukemia virus in living virus vaccines prepared in eggs.
8465

Diseases of mink.
8466

Studies on mouse leukemia viruses. I. Isolation and characterization of a group-specific antigen.
8477

Syncytia formation of mosquito cell cultures mediated by type 2 dengue virus.
8480

Enhancement and inhibition of avian sarcoma viruses by polycations and polyanions.
8484

Effect of 5-fluorouacil and 5-bromo-2'-deoxyuridine on the induction of thymidine kinase in polyoma virusinfected mouse embryo cells.
8488

VIRUS DISEASES (PLANTS)
Viruses-agents of disease.
8281

Tobacco mosaic virus in dividing mesophyll cells of Nicotiana.
8290

An electron microscopy study of the penetration of tobacco mosaic virus into leaves following experimental inoculation.
8292

Tomato virus diseases in closed and opened soil of the Estonian SSR.
8293

Identification of viruses isolated from cowpeas in Alabama.
8295

Degradation of turnip yellow mosaic virus by freezing and thawing in vitro: a new method for studies on the internal organization of the viral components and for isolating native RNA.
8299

Fluorescent antibody staining of tobacco mosaic virus antigen in tobacco mesophyll protoplasts.
8307

In situ breakage of turnip yellow mosaic virus RNA and in situ aggregation of the fragments. Analysis of successive stages.
8309

Studies on the 5'-terminus of turnip yellow mosaic virus RNA.
8316

Evidence of transovarial passage of the sowthistle yellow vein virus in the aphid Hyperomyzus lactucae.
8317

The presence in the vineyards of the Tessin of a nearctic cicadella, new for Switzerland, Scaphoideus littoralis Ball (Hom.Jassidae) a possible carrier of yellow flavescence.
8325

Restricted local spread of curly top in tomatoes.
8332

Rice leafhoppers.
8363

Contribution to the migratory behavior of Xiphinema diversicaudum (Mikoletzky) Thorne, X. coxi Tarjan and Longidorus macrosoma Hooper, as well as the diffusion of rhubarb mosaic virus in the field.
8382

VIRUS MUTATION
Semliki Forest virus temperature-sensitive mutants. isolation and characterization.
8318

Recombination in Newcastle disease virus (NDV): the problem of complementing heterozygotes.
8453

VIRUS PURIFICATION
Purification of a cytoplasmic-polyhedrosis virus of the silkworm, Bombyx mori.
8159

VIRUSES
Neodiprion taedae linearis: A sawfly pest of loblolly and shortleaf pines.
8334

VISION
Contrast perception in eye colour mutants of Drosophila melanogaster and Drosophila subobscura.
8211

VITAMIN A
The development of lesions in vitamin A-deficient adult fowl.
8458

VITAMIN B-12
Binding of 60-co-vitamin B12 by Ascaris suum intestine.
8517

VIVIPARITY
Evidence of transovarial passage of the sowthistle yellow vein virus in the aphid Hyperomyzus lactucae.
8317

VOLATILE SUBSTANCES
A continously recording flight mill for investigating the effect of volatile substances on the flight of feathered insects.
8087

WARFARIN
Studies on rodents and their control. Part V. Some factors affecting lethal feeding period with warfarin.
8522

WATER
P32-labeling of common malaria mosquitoes: assimilation by larvae and retention and transfer during mating.
8193

Gut absorption.
8207

Note on the determination of some chlorophenoxy herbicides and their esters in water.
8598

WATER POLLUTION
Distribution of insecticides sprayed by airplane on an irrigated corn plot. in: Organic pesticides in the environment; symposium...American Chemical Society, Atlantic City, N.J., Sept. 13-15, 1965. robert J. gould, ed.
8350

Effects of pesticides on raw wastewater.
8524

Identification and measurement of chlorinated organic pesticides in water by electron-capture gas chromatography.
8527

Identification and measurement of chlorinated organic pesticides in water by electron-capture gas chromatography.
8528

Determination of pesticides in water by microcoulometric gas chromatography after liquid-liquid extraction.
8530

Persistence of pesticides in orchards and orchard soils. in; Organic pesticides in the environment; symposium...American Chemical Society, Atlantic City, N.J., Sept. 13-is, 1965. robert J. gould, ed.
8532

DDT reduces photosynthesis by marine phytoplankton.
8557

Fish losses after forest sprayings with insecticides in New Brunswick, 1952-62, as shown by caged specimens and other observations.
8567

WEED CONTROL
Some ecological benefits of woody plant control with herbicides.
8395

Control and elimination of noxious weeds.
8404

Occurrence of Orobanche cernua on Pluchea lanceolata, an obnoxious weed in Rajasthan, India.
8411

Report on the current and planned local noxious weed control programs in New Jersey.
8414

Effectiveness of triazines and EPTC for weed control in seedling legumes.
8422

Methods of controlling weeds with derivatives of aminooxy lower alkanoic acids. Patent 3,457,063.
8426

Chemical weed control in crops.
8427

Regulatory activities of the Connecticut State Board of Pesticide Control.
8529

Administration of aquatic nuisance control in Ontario.
8534

WEEDS
Oxalis acetosella, a new host of the coffee root-lesion nematode in south India.
8387

Control and elimination of noxious weeds.
8404

Occurrence of Orobanche cernua on Pluchea lanceolata, an obnoxious weed in Rajasthan, India.
8411

Notes on dyer's greenweed (Genista tinctoria L., Leguminosae).
8420

Chemical weed control in crops.
8427

WHEAT
Alternaria seed infection of wheat.
8283

Chemical control of a species of the false chinch-bug group on wheat and sugar beets.
8336

Recognition of a greenbug biotype injurious to sorghum.
8349

Effect of gamma radiation on the insecticidal efficiency of malathion deposits on wheat and kraft paper.
8519

Influence of 2,4-D and streptomycin on the nitrogen metabolism of buckwheat seedlings and its relation to the anthocyanin biosynthesis.
8587

WHITE ROT
Pathological changes in the trunk of Prunus armeniaca L. and their relationship to the premature death of apricots. I. Investigations in the area of wood structure.
8308

WILDLIFE
DDT residues in Adelie penguins and a crabeater seal from Antarctica.
8552

WOOD BORERS
The old house borer in Eastern States.
8076

WOOD DECAY
Pathological changes in the trunk of Prunus armeniaca L. and their relationship to the premature death of apricots. I. Investigations in the area of wood structure.
8308

WOOD DESTROYING FUNGI
Feeding and reproduction of the grain and the mushroom mite on wood-inhabiting hymenomycetes.
8192

Pathological changes in the trunk of Prunus armeniaca L. and their relationship to the premature death of apricots. I. Investigations in the area of wood structure.
8308

WOOD STRUCTURE
Pathological changes in the trunk of Prunus armeniaca L. and their relationship to the premature death of apricots. I. Investigations in the area of wood structure.
8308

WOOL
Gardona as a mothproofer of woolen fabric.
8518

X-RAYS
Preliminary laboratory study of the effect of X rays on the fertility of Carpocapsa pomonella (Laspeyresia pomonella L.).
8229

The complementation map of mutations in a small region of the X-chromosome of Drosophila melanogaster.
8235

Inheritance of semi-sterility and transmission of chromosome rearrangements and fragments for 3 generations in the large milkweed bug.
8241

Caffeine and radiation induced mutations in Drosophila melanogaster.
8250

X-ray induced reversal of heterochromatization in male mealy bugs.
8256

XANTHOMONAS MALVACEARUM
A boll rot of cotton caused by Erwinia aroideae.
8298

XANTHOMONAS PRUNI
Control of bacterial spot of peach in New Jersey.
8288

XANTHOMONAS VESICATORIA
Bacterial spot of tomato in United Arab Republic.
8304

XENOPSYLLA CHEOPIS
Activity of repellents employed in aerosol form.
8110

XIPHINEMA
Pathogenicity of Hemicriconemoides species to coffee.
8386

XIPHINEMA AMERICANUM
Multiple applications of 1,2-dibromo-3-chloropropane for control of nematodes in established rose plantings.
8384

Plant-parasitic nematodes in marginal Pinus ponderosa stands in central New Mexico.
8390

XIPHINEMA COXI
Contribution to the migratory behavior of Xiphinema diversicaudum (Mikoletzky) Thorne, X. coxi Tarjan and Longidorus macrosoma Hooper, as well as the diffusion of rhubarb mosaic virus in the field.
8382

XIPHINEMA DIVERSICAUDATUM
Contribution to the migratory behavior of Xiphinema diversicaudum (Mikoletzky) Thorne, X. coxi Tarjan and Longidorus macrosoma Hooper, as well as the diffusion of rhubarb mosaic virus in the field.
8382

YELLOW MOSAIC
Identification of viruses isolated from cowpeas in Alabama.
8295

In situ breakage of turnip yellow mosaic virus RNA and in situ aggregation of the fragments. Analysis of successive stages.
8309

Studies on the 5'-terminus of turnip yellow mosaic virus RNA.
8316

YELLOW MOSAIC VIRUS
Degradation of turnip yellow mosaic virus by freezing and thawing in vitro: a new method for studies on the internal organization of the viral components and for isolating native RNA.
8299

In situ breakage of turnip yellow mosaic virus RNA and in situ aggregation of the fragments. Analysis of successive stages.
8309

YELLOW VEIN
Evidence of transovarial passage of the sowthistle yellow vein virus in the aphid Hyperomyzus lactucae.
8317

YOLK NUCLEUS
Quantitative determination of DNA content during formation of one of the puffs and one of the Balbiani rings in Chironomus dorsalis.
8264

ZINC
Plant treatment in relation to the rhizosphere effect. III. Foliar application of certain trace elements and metallic chelates in relation to the rhizosphere microflora of rice (Oryza sativa L.).
8588

ZINC PROPYLENEBIS(DITHIOCARBAMATE)
Neck rot in onions.
8296

ZINEB
Save your potato crop from fungal and bacterial diseases.
8286

Modification of the carbon disulfide evolution method for dithiocarbamate residues.
8604

ZOALENE
Automated determination of zoalene in feeds.
8452

ZOOGEOGRAPHY
Three new species of subgenus Parasecia Loomis (genus Fonsecia) from northeastern Brazil and a key to the included species (Acarina: Trombiculidae).
8024

Ixodes himalayensis sp. n. (Acarina: Ixodidae) parasitizing small mammals in Himachal Pradesh, India.
8027

A new genus and species of the family Lentulidae (Orthoptera: Acridoidea).
8028

Notes on some new or little known Chalcididae (Hym.).
8031

Additions to the Cyrtosiinae (Bombyliidae) of South Africa.
8037

Taxonomy of the rice stem borers.
8041

Survey and distribution of common lady beetles (Col. Coccinellidae) on date palm trees in Israel.
8042

Ichneumonidae of Northwest Germany. (II. Part).
8043

Notes on British Therevidae (Diptera).
8047

The types of tabanids in the zoological collection of the Bavarian States in Munich (Diptera, Tabanidae).
8049

Two new Carambinae for Austria Metacrambus carectellus Zeller in lower Austria, and Chrysocrambus linetellus Fabricius in Karnten.
8056

Species of Lygus (Hahn) (Hemiptera: Miridae) in Scotland.
8057

New Pterostichinae (Coleopt. Carabid.). VIII.
8058

Thaeniothrips vuilleti Bagnall 1933 and Thaeniothrips falsus Priesner 1936.
8061

Investigations concerning the taxonomy of German Thysanoptera. 5. Thaeniotrips linariae Pr. 1928 and Thaeniotrips hildae Tck. 1956.
8062

A new subfamily of blind beetle from Idaho ice caves with notes on its bionomics and evolution (Coleoptera: Leiodidae).
8065

The Old World species of the tribe Typopsilopini (Diptera: Ephydridae).
8066

The old house borer in Eastern States.
8076

Insects and the problem of austral disjunctive distribution.
8092

Research on bio-ecology of Sitona crinitus (Herbst) and method for chemical control.
8148

The biology and life cycle of Chilo suppressalis (Walker) and Tryporyza (Schoenobius) incertulas (Walker) in temperature-climate areas.
8149

New and little known species of the family Trioza Forst. (Homoptera, Psyllidae) from Korea.
8150

Variation-statistical research on the female of Formica lugubris Zett.
8153

Bionomics of Siricidae.
8162

Association among species of infrequent occurrence: The insect and spider fauna of Polyporus betulinus (Bulliard) Fries.
8171

The evolution and past dispersal of the Trichoptera.
8181

Air swallowing- an effective protection against drowning in larvae of Epistrophe balteata (Syrphidae Dipt.).
8185

The semispecies and the transitional populations of Drosophila paulistorum.
8242

Developmental time of geographical populations of Triholium castaneum.
8266

Fire on fire ants.
8322

The presence in the vineyards of the Tessin of a nearctic cicadella, new for Switzerland, Scaphoideus littoralis Ball (Hom.Jassidae) a possible carrier of yellow flavescence.
8325

New perspectives in the control of Aonidiella aurantii of Morocco (Hom., Diaspididae).
8327

Contribution to the migratory behavior of Xiphinema diversicaudum (Mikoletzky) Thorne, X. coxi Tarjan and Longidorus macrosoma Hooper, as well as the diffusion of rhubarb mosaic virus in the field.
8382

New data on the distribution and biology of the couch grass nematode (Paranguina agropyri Kirjanova, 1955 (Nematoda: Tylenchida).
8385

Nematodes associated with soybeans in Alabama, Florida, and Georgia.
8389

Plant-parasitic nematodes in marginal Pinus ponderosa stands in central New Mexico.
8390

Redescription of Ornithobilharzia canaliculata (Rud.) Odhner, with notes on classification of the genus Ornithobilharzia and the subfamily Schistosomatinae (Trematoda).

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8611

Abraham, T P 8354
Adams, C H 8070
Adams, J B 8320
Adiguzel, N 8148
Adkisson, P L 8201
Afify, A M 8130
Afscharpour, F 8279
Agnihothrudu, V 8280
Ahmad, R 8072
Akhaveln, A A 8392
Akune, S 8151
Alexander, R D 8073
AliNlazee, M T 8074
Ambrogioni, L 8381
Amendola, F 8460
Anderer, F A 8477
Anderson, L D 8075
Angalet, G W 8109
Angier, R B 8445
Antiey, R M 8077
Antonyuk, R D 8446
Apple, E J 8555
Arneklov, D R 8399
Arnold, B C 8323
Ashhurst, D E 8078
Ashrafi, S H 8166
8609
Askew, R R 8050
Atkins, E L 8075
Atwal, A S 8324
Aubin, A E 8558
Austin, W C 8447
Ayad, K N 8393
Bagglolini, M 8229
8325
Bailey, L 8079
Baker, H G 8080
Baravaile, T R 8593
Barber, C 8594
Baribeau, J 8394
Barkai, A 8272
Barker, P S 8081
Barrons, K C 8395
8396
Barthel, W F 8607
Bashir, M O 8082
Bassi, M 8292
Bateman, T W 8432
Bauer, H 8477
Bauernfeind, J 8448
Baxter, W L 8537
Bayer, G H 8397
Beck, S D 8083
Beckman, H 8603
Bell, A E 8224
8240
Bell, R S 8398
8400, 8544
Bellett, A J D 8318
Belton, P 8084
Benassy, C 8021
8326, 8327
Bencko, V 8559
Bennett, J 8218
Bennett, K W 8218
Bennett, R B 8087
Benzer, S 8249
Berndt, W L 8274
Beroza, M 8346
8596
Berry, S J 8175
Berthiaume, L 8461
Betto, E 8292
Bevan, D 8328
Bevenue, A 8603
Beye, F 8085
Bhatia, L J 8329
Bhowmik, T P 8283
Bianchi, H 8326
Bingham, S W 8591
Birt, L M 8086
Birum, G H 8595
Bischoff, W L 8246
Bishay, F 8304
Blackman, G G 8188
Blaylock, B G 8219
Blundell, S K 8491
Bocker, E 8442
Bonham, C D 8121
Borden, J H 8087
Bosch, L 8309
Bosch, R van den 8126
Bostick, P E 8284
Bouletreau, M 8088
Boursin, C 8022
Bowden, S R 8023
Bowman, M C 8069
8596
Bradley, L Jr. 8547
Bratt, M A 8449
Breitfeld, H 8376
Bremner, T 8257
Brennan, J M 8024
Breuning, S von 8025
Brewer, J W 8089
Bridges, R G 8090
Briggs, J D 8133
Brito, T de 8450
Brokke, M E 8399
Brosseau, G E 8220
Brothers, D J 8026
Brown, G A 8091
Brown, W H 8553
8576
Brundin, L 8092
Brunton, R B 8443
Bry, R E 8518
Bryan, D E 8093
Buchanan, J B 8285
Bucher, G E 8094
Buekner, C H 8330
Burgdorfer, W 8095
Burt, E C 8128
8331
Burton, G W 8383
Butler, L 8221
Butt, B A 8378
Caecia, R 8325
Cahill, W P 8533
8555
Cairns, E J 8389
Cailaghan, M M 8250
Campbell, J E 8573
Canevascini, V 8325
Canter, L W 8524
Carlson, P S 8222
Casida, J E 8572
Castro, J G 8509
Catalpinar, A 8148
Cavalloro, R 8096
Chahal, D S 8286
Chan, T 8560
Chapman, H C 8098
Chappell, W E 8435
Chee, K H 8287
Chen, Y-H 8051
Chernishcva, M I 8451
Chippendale, G M 8097
Chordi, A 8509
Chouard, P 8577
Christian, B 8086
Christopherson, H L 8452
Chubareva, L A 8223
Chung, C S 8253
Chupp, J P 8111
Church, N S 8261
Chute, M B 8470
Cirio, U 8096
Coiceu, A 8311
Colaianne, J J 8224
Cole, D W 8525
Cole, R H 8401
Comeau, A 8178
8179
Conover, L H 8447
Cooke, A R 8410
Corley, C 8346
Corner, A H 8469
Covassi, M V 8333
Cox, W S 8530
Coyne, J F 8334
Coz, J 8099
8273
Craig, D A 8225
Craig, G B 8118
Cross, W H 8070
Cunningham, D J 8443
Currey, W L 8402
D'Souza, G I 8386
8387
Dahlberg, J E 8453
8454
Dahlgren, R B 8537
Dahlman, D L 8100
Dahlsten, D L 8335
Dahm, P A 8570
Daines, R H 8288
Dale, W E 8538
Dalela, G G 8411
Dallai, R 8101
Dallyn, S L 8403
Daniels, N E 8336
8337
Danilova, L V 8102
Dasgupta, B 8103
David, J 8088
8104
David, W A L 8105
Davidson, R W 8289
Davis, D G 8214
Davis, R 8091
Day, W H 8109
DeBarr, G L 8339
Degrugillier, M 8241
Delfel, N E 8597
Demoranville, I E 8578
Denham, D A 8513
Dennis, N M 8518
Derscheid, L 8404
Derscheid, L A 8427
Desowitz, R S 8106
Desser, S S 8462
Detinova, T S 8107
DeVay, J E 8289
Devine, J M 8598
Devlin, R M 8578
Dewan, R S 8539
Dhanda, V 8027
Di Jeso, F 8108
Diaz-Ungria, C 8492
Dindal, D L 8561
Dirsh, V M 8028
Dobson, R C 8089
Dobzhansky, Th 8242
Donaid, A D 8493
8494
Dorfman, E 8277
8306
Doyle, W C 8405
Draper, A D 8314
Drea, J J 8109
Dremova, V P 8110
Drew, M E 8320
Duke, W B 8579
Dunham, C W 8406
Dunn, J H 8407
Dunstan, G H 8350
8543
Durand, B 8580
Early, J D 8111
Edwards, H E 8567
Ehrman, L 8237
Eichten, J G 8455
Elbadry, E A 8112
8338
Elbenhawy, E M 8112
Enfield, F D 8230
Engel, R E 8407
Engelmann, F 8113
Englert, D C 8226
Epstein, S S 8566
Erasmus, D A 8501
Ercegovich, C D 8540
Erro, F 8603
Erway, L C 8227
Esau, K 8290
Espanol, F 8029
Estesen, B J 8533
Eue, L 8606
Euverte, G 8327
Evans, E 8291
Evans, W F 8410
Ewing, A W 8228
Eyian, E 8594
Fairbairn, D 8503
Fallis, A M 8462
Farghaly, H T 8130
Farnsworth, M W 8114
Fatzinger, C W 8339
Favali, M A 8292
Felr, D 8115
Fennah, R G 8030
Ferguson, D E 8541
8562
Ferguson, J I 8472
Fernando, M A 8495
Ferricre, Ch 8031
Ferron, P 8116
Filipponi, A 8032
Finley, M T 8562
Fischer, M 8033
8034
Flanagan, T R 8408
Foong, K M 8287
Forrest, H S 8170
Fossati, A 8229
Fox, A S 8077
Foy, C L 8409
Franz, J M 8340
8341
Frear, D E H 8540
Fretz, T A 8406
Frieke, D H 8403
Friedman, A R 8117
Friedman, L D 8253
Fritzehe, R 8382
Frost, K R 8533
8555
Frost, S 8020
Fuchs, M S 8118
Fujii, K 8566
Fujita, H 8419
Fukaya, M 8119
8120
Fukuda, H 8581
Fukuto, T R 8143
Fye, R E 8121
Gaetani, M T 8108
Gallagher, J E 8410
Gambrell, F L 8376
Gameel, O I 8035
Gaprindashvili, N K 8342
Gardner, W 8436
8437
Gariou, J 8163
Gartenmann, G 8211
Gavriia, I 8563
Gemmell, M A 8491
Gentile, A G 8343
Gentner, W A 8582
Gentry, C R 8596
Genung, W G 8345
Geppetti, L 8122
Gerhardt, P D 8533
8555
Gerola, F M 8292
Gerson, U 8123
8344
Gessel, S P 8525
Gienger, G W 8612
Gilbert, C C 8541
Gill, R H 8290
Girish, G K 8521
Glan, P V 8456
Glasgow, J P 8124
Godoy, C V F 8450
Goerlitz, D F 8527
8528
Goidin, M 8293
Goldstein, E S 8194
Gomez, F 8496
Gonzalez, M 8036
Gooch, J M 8457
Goodwill, R 8230
Gorbatkova, V V 8110
Goree, H 8294
Goven, M J 8425
Graham, K 8125
Graham, O H 8489
Greenberg, J 8564
Greene, G L 8345
Greer, B W 8231
Grell, E H 8232
8269
Greil, R F 8233
Grigat, E 8442
Grosch, D S 8270
Gross, K 8147
Gudauskas, R T 8295
Guerin, H 8566

Guignard, E 8360 8361
Gulati, K C 8539
Gupta, S C 8411
Hack, H 8606
Hackcrott, H L 8349
Haddock, R L 8457
Hagen, K S 8126
Hagin, R D 8422 8548
Hamon, J 8099 8273, 8275
Hanec, W 8127
Hanl, M 8266
Hara, A 8151
Haramaki, C 8412
Hardin, R T 8266
Harding, J A 8346
Harding, W C 8347
Hardy, R J 8348
Harris, F A 8128
Harrison, A N 8295
Harrison, F P 8347
Harshharger, J C 8129
Hart, W J 8438
Harvey, T L 8349
Haselkorn, R 8316
Hassancin, M H 8130
Haut, I C 8314
Hayashi, A 8131
Hazzard, J 8399
Heald, C M 8383
Heimpel, A M 8132
Heiss, R 8442
Heller, R 8583
Henon, B 8611
Herbert, E W 8189
Hermann, G 8442
Hesse, A J 8037
Hill, E R 8542
Hillebrecht, W R 8398
Hindin, E 8350 8543
Hink, W F 8133
Hitchcock, J D 8160
Hoage, T R 8134
Hodek, I 8135
Hodge, D 8296
Holan, G 8497
Holden, J S 8090
Hoogstraal, H 8136
Hooper, D J 8514
Hooper, G H S 8137 8138, 8180
Hopkins, C A 8498
Hoppe, P E 8297
Horstmann, K 8038 8039
Hotz, G 8599
Howell, J McC 8458
Howells, R E 8499
Howlson, C N 8526
Huber, C 8459
Huger, A M 8152
Humphries, D A 8139
Hunt, L B 8565
Hunter, R E 8298
Hurd, P D 8080
Huston, F 8142
Hutt, R B 8378
Hyson, A M 8600
Iglisch, I 8351
Ikeno, N 8131
Inicki, R D 8305 8413, 8440, 8441
Intelisano, F R 8414
Irani, R R 8415
Ishii, S 8140
Ishikura, H 8040 8353
Israel, P 8354 8355, 8370
Ivanova, N A 8465
Ivey, M H 8504
Iwao, S 8149
Jacklin, S W 8157
Jackson, C G 8093
Jacobson, K B 8269
Jaegers-Roehr, E 8141
Jaffe, H 8566
Jagschitz, J A 8416 8417, 8423
Jakstys, B P 8500
Jaques, R P 8142
Jeljaszewicz, J 8482
Jenkins, T 8501
Jensen, H J 8391
Jeska, E L 8502
Jezyk, P F 8503
Johansen, P H 8558
Johnson, D E 8384
Johnson, H A 8460
Johnson, R D 8020
Johnson, R S 8601
Joncas, J 8461
Jones, R L 8143
Jordao, F M 8450
Judd, B H 8234 8235
Jung, H F 8313
Jungi, T 8211
Justus, D E 8504
Kabiersch, W 8418
Kamano, S 8119
Kano, Y 8602
Kanora, J 8481
Kantack, B H 8274
Kapcr, J M 8299
Kapur, A P 8041
Kato, K 8419
Kaufman, T C 8235
Kawada, A 8356
Kawano, Y 8603
Kawase, S 8159
Keahey, K K 8479
Kehat, M 8042
Keiding, J 8144
Kelman, A 8297
Kelsheimer, E G 8345
Kemner, P A 8251
Kenyon, S 8398 8400
Keppel, G E 8604
Keppler, W J 8236
Kernaghan, R P 8237
Kerr, T W 8544
Kershaw, W E 8020
Kerswill, C J 8567
Kettner, F W 8043
Kevan, D K M 8044
Keydar, J 8594
Khan, N R 8145
Khan, R A 8462
Khanna, A 8300
Kharazi-Pakdel, A 8146
Kiefer, B I 8147
Kiigemagi, U 8532
Kiimagi, U 8531
Kilhy, B A 8097
Kilic, A U 8148
Kimura, I 8159
King, L J 8420
King, R C 8238
Kinney, D A 8407
Kiritani, K 8149
Kitzmiller, J B 8236
Kiyohisa, Y 8419
Klimaszewski, S M 8150
Knight, F B 8357
Knorr, L C 8312
Knox, D A 8189
Koch, G 8412
Koga, K 8151
Kollonitsch, J 8463
Krall, E 8385
Krall, H 8385
Kricg, A 8152
Krishnamurthy, K 8522
Kuhat, J 8554
Kulka, M 8592
Kulkarni, S M 8027
Kumar, A C 8386 8387
Kunz, S E 8489
Kunz, W 8239
Kuratle, H 8421
Kury, C R 8545
Kutter, H 8153
LaChance, L E 8241
Lackett, J J 8160
Laderman, M 8508
LaHam, Q N 8564
Lal, R 8191
Lamant, A 8583
Lamar, W L 8527 8528
Lane, H C 8128
Lang, J H 8518
Lange, E L 8240
Langlois, B E 8546
Laurence, G A 8127
Lauwerys, R R 8568
Law, L M 8528
Le Minor, L 8464
Leaphart, C D 8301
Lear, B 8384
Lee, E 8242
Lehnert, T 8189
Lengy, J 8516
Leshchinskaya, N P 8465
Leslie, R T 8494
Leventhal, E A 8243
Levin, B R 8244
Levy, F M 8611
Lew, G T 8045
Li, C F 8547
Lim, J K 8245
Lindauer, M 8154
Linder, R L 8537 8163, 8275, 8276
Lindgren, D L 8074
Linscott, D L 8392 8422, 8548
Liska, B J 8546
Liu, H Y 8045
Lloyd, E P 8128 8331
Lobl, I 8046
Lofgren, C S 8193
Loliger, H Ch 8466
Lovely, W G 8346
Lucchesi, J C 8246
Ludford, C G 8467
Ludke, J L 8562
Lucdemann, G M 8485 8486
Lukes, G E 8399
Luthy, P 8094
Lyneborg, L 8047
Mackauer, M 8048 8247
Macnamara, F N 8491
Magnoler, A 8358
Mahany, P G 8519
Maizel, J V 8487
Malling, H V 8302
Mandel, M 8309
Mani, E 8155
Manning, A 8228
Mapes, C J 8505
Marek, M 8156
Marquez, J A 8485
Martens, P 8556
Martin, J W 8438
Martin, W E 8517
Maruyama, Y 8455
Marx, M B 8468
Mason, H C 8157
Matchett, R E 8020
Mathys, G 8359 8360, 8361
Matsubara, H 8158
Matsui, M 8586
Matsushiro, A 8602
May, D S 8350 8543
Mayura, K 8605
Mazur, A R 8423
McCain, A H 8303
McDonald, I C 8248
McFarland, J W 8447
McGrew, J R 8314
McKay, K A 8469
McLoughlin, D K 8470
Melis, G 8101
Menzie, C M 8552
Merriam, J R 8249
Metcalf, R L 8143 8569
Meyer, F H 8279
Meyers, F W 8175
Mickail, K Y 8304
Mihoc, M 8563
Milaire, H 8326
Milbrath, M 8553
Mills, M L 8020
Mills, R R 8183
Miskus, R 8549
Mistry, S P 8473
Mitchell, H C 8070
Mitrovic, M 8448
Mittler, S 8250
Miyagawa, S T 8384
Miyajima, S 8159
Moffett, J O 8160
Mohamed, A H 8251
Moller, W J 8289
Molyneux, D H 8161
Monlin, J 8584
Moran, V C 8217
Moran, V. C. 8026
Moree, R 8252
Morgan, D H 8447
Morgan, F D 8162
Mori, K 8586
Moriarty, F 8550
Morrow, R R 8424
Morton, N E 8253
Mostosky, U V 8479
Moucha, J 8049
Mouchet, J 8099 8163, 8275, 8276
Mukai, T 8254
Mulkern, G B 8164
Muller-Kogler, E 8471
Muller, G 8606
Munakata, K 8362
Murbach, R 8229
Murdock, K C 8445
Murphy, G G 8562
Murphy, H J 8425 8437
Murphy, S D 8568
Musgrave, A J 8145
Naisse, J 8165
Nakatsugawa, T 8570
Nance, C D 8524
Naqvi, S N H 8166
Nashed, R B 8305
Nasu, S 8363
Neeley, J C 8255
Neighbors, R P 8426
Neil, D H 8469
Neilson, W T A 8142
Nelson, J W 8089
Neuffer, G 8167
Newburgh, R W 8231
Newcomer, J S 8306
Nickel, J L 8364
Noble, L W 8365
Norris, D M 8585
Novitskaya, T N 8342
Nuesch, H 8168
Nur, U 8256
Ogawa, T 8586
Okamoto, D 8362
Olney, C E 8544
Otsuki, Y 8307
Otter, M 8587
Ottoboni, A 8472
Paelt, J 8308
Page, K W 8359 8188
Paim, U 8176
Palmisano, A M 8158 8388
Panis, A 8586 8021
Papageorgiou, M C 8602 8157
Parker, R 8350 8404 8427
Parochetti, J V 8605 8428
Parsons, M C 8423 8612
Pascariu, C 8303 8169
Patana, R 8248 8563
Patel, M S 8447 8093
Pathak, M D 8314 8473
Patterson, R S 8469 8366
Patton, R L 8470 8367, 8368
Paul, F J 8101 8193
Paulian, F 8552 8210
Pavilanis, V 8249 8480
Pavlovsky, O 8143 8369
Pawlowski, J 8461
Payak, M M 8279 8242
Peay, W E 8175 8577
Peck, B T 8304 8300
Pegazzano, F 8563 8197
Penna, D O 8326 8529
Perry, R P 8553 8032
8020 8450
8183 8267

Peters, D C 8134
Peters, R A 8402
Phillippon, A 8474
Phillips, J H H 8209
Phillips, J P 8170
Piechaud, M 8483
Pielou, D P 8171
Pielou, E C 8171
Pipkin, S B 8257
Pister, L 8477
Pitt, G A J 8458
Platt, D S 8571
Pley, C W A 8309
Polesna, D 8475
Ponis, D 8208
Pons, W A 8520
Prakash, S 8258
Price, M A 8489
Probert, A J 8506
Punj, G K 8521
Qadri, M A H 8166
Quagliarotti, G 8259
Quinby, G E 8538
Quinlan, J 8050
Qureshi, S A 8609
Raghunath, T 8310
Rahn, E M 8421
Ralcu, C 8311
Raleigh, S M 8429
8540
Randolph, N M 8201
Rao, R H 8172
Rao, Y S 8370
Rehois, R V 8389
Reddy, D B 8371
Reddy, T K R 8588
Reed, C B 8205
Regenfuss, H 8173
Regnier, F E 8174
Reichel, W L 8552
Reitz, H J 8312
Remington, C L 8260
Rempel, J G 8261
Retzlaff, E 8279
Reyes Q, J A 8372
Richardson, T 8547
Riechers, L A 8175
Riekerk, H 8525
Riffle, J W 8390
Riley, N D 8023
Riordan, K 8262
Ritossa, F M 8259
Rivard, I 8373
Rizki, R M 8263
Rizki, T M 8263
Robertson, E A 8551
Robinson, A G 8051
Robinson, G L 8176
Roeder, K D 8177
Roeldfs, W L 8178
Roelofs, W L 8179
Roger, J-C 8572
Rose, H A 8180
Rosen, P 8272
Ross, H H 8181
Rowe, D R 8524
Roy, P 8103
Ryley, J F 8476
Sacho, R J 8565
Safavi, M 8182
Saito, T 8374
Sallternik, Z 8272
Sambrook, J F 8318
Samuel, E L 8497
Saucr, J R 8183
Sauter, W 8052
8053
Schacverbeke, J 8589
Schafer, M L 8573
Schafer, W 8477
Schaffer, H E 8184
Scharff, M D 8487
Schauer, R L 8430
Scheinpflug, H 8313
Schirmer, R G 8479
Schneider, F 8185
Schoonhoven, L M 8186
Schrader, G 8313
Schubert, O E 8590
Schutzmann, R L 8607
Schwerdt, M A 8431
Schwinck, I 8187
Sciaroni, R H 8303
8384
Scott, D H 8314
Scott, P M 8608
Scott, T W 8432
Searl, R C 8478
Sebeleva, T E 8264
Sen, A K 8391
Sengupta, M 8566
Shamanna, H V 8387
Shane, J L 8083
Sharma, L C 8411
Shaw, R D 8188
Shen, M W 8235
Shimanuki, H 8189
Shimura, Y 8602
Shipman, R D 8433
Siberg, R A 8299
Sick, F 8190
Siddiqui, S 8609
Sieder, L 8054
Silverman, P H 8500
Simon, E H 8453
8454
Simon, H R 8375
Singh, H 8191
Singh, K 8324
Singh, N 8286
Sinha, D P 8479
Sinha, R N 8192
Sinnock, P 8265
Sitterly, W R 8315
Sladen, W J L 8552
Smith, D B 8331
Smith, H Q 8434
Smittle, B J 8193
Smorodintsev, A A 8465
Smyth, J D 8507
Snyder, L A 8194
8245
Sobrio, G 8325
Soliman, M 8266
Stahl, J 8229
Steffan, J R 8055
Stemp, A R 8546
Sterrett, J P 8435
Sterzl, O 8056
Stewart, L E 8612
Stewart, R K 8057
Stoner, A K 8343
Straneo, S L 8058
Stritzke, J F 8427
Stroyan, H L G 8059
Strumia, F 8195
Stull, J W 8553
Stymiest, C E 8427
Subrahmanyam, D. 8172
Suitor, E C 8480
Sullivan, L M 8553
Sumiki, Y 8586
Sundby, R A 8196
Sutton, D L 8591
Suzuki, J 8316
Svoboda, J 8554
Swenson, A A 8197
Swenson, K G 8376
Sylvester, E S 8317
Symon, K 8559
Szalkowski, C R 8481
Szmigielski, S 8482
Szturm-Rubinsten, S 8483
Takebe, I 8307
Talens, J 8309
Tallent, W H 8597
Tan, K B 8318
Tanada, Y 8198
Tartof, K D 8267
Tatchell, R J 8490
Taylor, G S 8278
Taylor, R L 8129
8199
Tdrossian, C 8200
Teasley, J I 8530
Teetes, G L 8201
Tencalla, Y 8325
Terranova, A C 8202
Terriere, L C 8203
8531, 8532, 8560
Theodorides, V J 8508
Thoizon, G 8204
Thomas, G M 8335
Thompson, J N 8458
Throckmorton, L H 8060
Tiriba, A 8450
Titschack, E 8061
8062
Todd, F E 8205
Tokunaga, C 8268
Tolman, N M 8570
Tongiorgi, P 8122
Toole, D R 8408
Torii, T 8063
8380
Tormo, J 8509
Toyama, T 8419
Toyoshima, K 8484
Traboulsi, R 8206
Treherne, J E 8207
Trevett, M F 8436
8437
Truchelut, G B 8438
Tsetlin, V M 8110
Tullio, V 8208
Turian, G 8215
Twarozik, D R 8269
Tyo, R M 8551
Tzanakakis, M E 8209
Ueda, K 8574
Uniyal, V 8522
Upshall, D G 8572
Ural, I 8377
Vago, C 8104
Valcovic, L R 8270
Varma, M G R 8095
Vengris, J 8542
Venratraman, T V 8082
Verciskaja, V N 8102
Vershilova, P A 8451
Vlette, P 8064
Villemson, S 8293
Vogt, P K 8484
Von Schmeling, B 8592
Vusse, F J V 8511
Waddell, A H 8512
Wagman, G H 8485
8486
Wagoner, D E 8271
Wang, C M 8210
Ware, G W 8533
8555
Wassall, D A 8513
Webb, F J 8401
Webb, R E 8343
Webster, J M 8514
Wedemeyer, G 8575
Weesner, W E 8439
Wehner, R 8211
Weil, E D 8277
8306
Weinstein, M J 8485
8486
Wells, D 8534
Wessel, J R 8610
West, R R 8443
Westcott, R L 8065
Westigard, P H 8531
8532
White, D O 8487
White, L D 8378
Whiting, F M 8576
Whiting,f M 8553
Whitney, R D 8192
Whitten, J M 8212
Wicker, E F 8301
Wilbert, H 8213
Wile, I 8534
William, A 8556
Williams, T R 8020
Wilson, E O 8174
Wilson, H P 8413
8440, 8441
Wilson, R A 8515
Winkler, G 8115
Wirth, W W 8066
Wisk, E L 8401
Witenberg, G 8516
Witt, J M 8553
8576
Wong, T T Y 8214
Woodward, T E 8067
Workman, R B 8345
Wright, M J 8548
Wuest, J 8215
Wurster, C F 8557
Wynn, W K 8216
Yanami, T 8419
Yankovskis, E Y 8110
Yasumatsu, K 8379
8380
Yoshimeki, M 8068
Yoshimoto, T 8419
Young, J R 8069
Youthed, G J 8217
Zak, C 8482
Zam, S G 8517
Zemla, J 8488
Zhuk, E B 8110
Zivy, D 8611
Zweig, G 8598
Zwick, R W 8531
8532

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